

OVERSEAS NEWS

Curfew and geiger counters in Middletown

THESE DAYS there is a 9 p.m. to 7 a.m. curfew in Middletown, Pennsylvania, only a few thousand yards from the stricken nuclear reactor that squats ominously out in the broad Susquehanna River...

ness, is risky but necessary, the 150,000 people within 10 miles of the damaged reactor have not panicked.

David Buchan reports from the scene of America's worst nuclear accident

So for the moment, Pennsylvanians, like everyone else, are suspended in uncertainty. They have seen the men with Geiger counters on their streets. Some, crowding into Press conferences...

in Middletown, have heard Nuclear Regulatory Commission officials estimate that the accident has increased local residents' chances of cancer, though only by one or two cases for every 10,000 of them exposed to 1,000 millirems of radiation...

Peking decree silences wallposter dissidents

BY JOHN HOFFMANN IN PEKING

THE PEKING leadership has effectively silenced the voice of dissent and democracy in the city, both by decree and by swiftly erasing the wallposters which were their visible evidence.

their only canvas for free expression. The Communist Party leadership has made it clear that expression is not to be as free as in the past few months.

warned that violators faced physical labour, education and discipline. The measures, which the paper said had been adopted two days ago by the Peking Revolutionary Committee...

THE ARAB LEAGUE BOYCOTT

Egypt in political isolation

BY OUR CAIRO CORRESPONDENT

POLITICAL isolation, including the removal of the Arab League headquarters to Tunis, is likely to last Egypt more than the economic sanctions passed by the Arab League in Baghdad.

Tunisian ambassador unexpectedly left for home. Mere problematic is the fate of \$2,000m of Central Bank Deposits held by Kuwait and Saudi Arabia in Egypt.

defined them only as a required minimum, as provided expressly in the clause, permitting each country to do more if it wants. Arab diplomats here said that Syria had gained time in which to concentrate on isolating Egypt while trying to avoid a military confrontation with Israel.

Nigeria sets tight budget line

By Car Leges Correspondent

NIGERIA'S MILITARY government has prepared a Naira 8.5bn (£7,480m) budget for the financial year which started yesterday, providing the economic guidelines for the elected civilian government due to take over in October.

Uganda rebels 'set to take Kampala despite reversals

BY MARK WEBSTER IN NAIROBI

UGANDAN EXILE forces said yesterday that they were still in a position to take the capital Kampala, despite confirmed reports that they had been driven back to about 20 miles from the city.

Residents in the capital last night could again be heard shouting to the south of the city. Two quiet nights. Diplomats here said that even though the invasion force had been pushed back, Kampala should still be within reach of their 122mm long-range artillery.

Travel fast asleep to Paris. Night Ferry. Sleeper Services. The Night Ferry Sleeper Service leaves London Victoria every night at 2125 hrs and arrives in PARIS before 0900 hrs next morning.

PICA PRIVATE INVESTMENT COMPANY FOR ASIA (PICA) S.A. US\$20,000,000 NEGOTIABLE FLOATING RATE NOTES DUE 8TH FEBRUARY, 1986. In accordance with the provisions of the Notes, notice is hereby given that PICA's half-yearly Financial Report has just been published and is available upon request by holders of the above Notes.

Iran votes for Islam republic

TEHRAN—Ayatollah Ruhollah Khomeini announced yesterday that Iranians had voted "unanimously" for the transformation of the nation into an Islamic republic according to the state radio. AP reports from Tehran. He decreed that April 1, henceforth be known as "Republic day" in honour of the result of the nation's referendum.

Chirac re-elected as Gaullist party president

BY ROBERT MAUTHNER IN PARIS

M. JACQUES CHIRAC was re-elected President of the Gaullist RPR Party on Saturday at an emotion-charged national conference during which he strongly attacked both the Government's economic policies and the Common Market.

Referring to the French Government's industrial restructuring schemes, particularly the reorganisation of the steel industry, M. Chirac said that the authorities had acted much too brutally. While it was normal that in a modern economy certain necessary adjustments had to be made, it was unjust and shocking that entire regions should be victimised and their workers reduced to a state of despair.

Namibia talks start

Mr. P. W. Botha, the South African Prime Minister, and Mr. R. F. Pik Botha, the Foreign Minister, will hold talks today with the South Africa-sponsored constituent assembly in Namibia to decide whether or not finally to abandon the western efforts for an internationally-acceptable settlement in the territory, Quentin Peel writes from Johannesburg.

Bhutto 'resigned'

Mr. Zulfikar Ali Bhutto, the former Pakistan Prime Minister, was yesterday reported resigned to his fate on the gallows—despite pleas for mercy from a former Ministerial colleague. Reuter reports from Islamabad.

U.S. airline stops flights

By Stewart Fleming in New York

WIDESPREAD disruption is threatened to travellers across the United States as a result of a decision by United Airlines to cancel all flights until April 9. The nation's largest carrier takes an average of 130,000 passengers a day to 110 cities.

They're Off in the Electoral Stakes

The party returning the greater number of seats to Parliament

Table with 4 columns: Party, Seats, and Majority Status. Conservative 1-4, Labour 3-1, Conservative 2-5, Labour 8-1, Conservative 7-2, Labour 4-1.

All wagers accepted on the General Election are subject to the stipulation that all Northern Ireland candidates and the Speaker will be elected as others. Prices subject to fluctuation. No Postal Bets.

Better bet Coral. CORAL RACING. A Division of the Coral Leisure Group.

THE UNITED STATES DEBENTURE CORPORATION LIMITED

Year Ended 31st January, 1979. Extracts from the Directors' Report.

Financial table with columns for 1979 and 1978. Rows include Gross Revenue, Earnings - Basic, Earnings - Fully diluted, Dividend, Net Assets, etc.

Dividend and Revenue. Your Board are pleased to recommend that the total net dividend per stock unit for the year be raised 15.1 per cent to 4.05p. This increase compares favourably with the 9.3 per cent rise in the Retail Price Index during the year.

During the year, the total net assets of your Company advanced by 13.7 per cent to £88,308,259. The underlying performances of our two principal areas of investment, namely the United Kingdom and North America, are detailed below.

The value of the United Kingdom portfolio grew by 8.2 per cent, compared with the 8.6 per cent increase in the Financial Times All Share Index for the same period. Whilst this comparison is perhaps a little disappointing, it should be borne in mind that this index contains 750 constituents, many of which are very small companies.

The North American portfolio advanced by 24.5 per cent. This compared with a 23.9 per cent increase in the Standard & Poor's Composite Index and a 39.1 per cent increase in the Toronto Composite Index, both of these indices being adjusted for movements in the investment currency premium and the exchange rate.

The 1978 Finance Act introduced legislation lowering the tax on Capital Gains within Investment Trusts from 17 per cent to 10 per cent, retrospective to April, 1977. This legislation was most welcome.

The Annual General Meeting will be held on 16th May, 1979 in London.

Notice of Redemption SOCIETES DE DEVELOPPEMENT REGIONAL "SDR"

9 1/2% 1975-1987 EUA 25,000,000

Holders in the above mentioned issue are hereby informed that on May 5th, 1979 an early redemption covering a principal amount of EUA 25,000,000 will be effected at the redemption price of 102 1/2% of their nominal value.

The principal amount of bonds outstanding after the amortisation of 5th May, 1979 will be EUA 20,474,000.

Table with columns for bond numbers and amounts. Includes entries like 18374 to 18379 inclusive, 18380 to 18385 inclusive, etc.

BANQUE INTERNATIONALE A LUXEMBOURG Societes Anonymes Fiscal Agent Luxembourg, 2nd April, 1979.

Arab African International Bank. IS PLEASED TO ANNOUNCE THE OPENING OF ITS REPRESENTATIVE OFFICE IN THE UNITED STATES AT 645 FIFTH AVENUE, NEW YORK, N.Y. 10022. Telephone: (212) 755-4810. John J. Hoey, New York Representative.

كتاب التجارة

Brazil concludes new oil supply deal with Iran

BY DIANA SMITH IN RIO DE JANEIRO

THE NATIONAL Iranian Oil Company (NIOC) will ship over 5m barrels of oil to Brazil early this month.

The consignment is part of a revised contract between Brazil's oil monopoly, Petrosbras, and NIOC for supplies of 200,000 barrels a day until the end of this year. Last year, Petrosbras imported 150,000 b/d from the NIOC, then Brazil's third largest foreign supplier of crude.

The political crisis in Iran placed severe strains on Brazil's oil stocks which, by early March, were down to 40 days' forward supplies. Thus, a new agreement with NIOC was of the utmost urgency.

While several industrialised nations faced the risk of losing oil supplies from Iran, Petrosbras had a relatively strong bargaining point—it had never used intermediaries in its trading with Iran and always dealt directly with the NIOC.

This point appears to have been appreciated by the NIOC since not only did it agree to resume and, in fact, increase oil shipments to Brazil, but, after last week's OPEC meetings, Iranian officials hinted that Brazil would be one of the few countries allowed to purchase Iranian oil at less than \$15 a barrel.

While the deal with Iran has eased the strain on Brazil's

stocks, the financial strain of the general OPEC increases will do nothing to help an already overburdened imports bill. Petrosbras calculates that the increases will add a net \$250m to this year's oil imports, bringing the gross imported crude bill to close on \$550 in 1979.

ENI visit to Mexico

BY RUPERT CORNWELL IN ROME

SIG. GIORGIO MAZZANTI, the new president of ENI, the Italian state hydrocarbons agency, is currently on a trip to Mexico to sound out the possibilities of securing future and supplies from what is shortly expected to become one of the world's leading oil exporting nations.

The trip of Sig. Mazzanti, who is accompanied by Sig. Enzo Barbaglia, president of the group's refining offshoot AGIP, follows similar visits to Libya, Iraq and Iran since he took over as head of the group two months ago.

It was reported here that one of the aims of his trip will be to explore whether scope exists for contracting for oil imports in exchange for supplies of Italian know-how and equipment to speed the development of Mexico's energy industry.

Sig. Mazzanti will be seeing

senior officials at Pemex, the Mexican state oil corporation. Only last week Pemex released new estimates suggesting that the country's potential reserve could top 200bn barrels against the current proven level of 41b barrels.

Italy, as one of the Western nations most dependent on oil imports, badly needs to ensure both secure supplies and additional outlets for its exports. The latest round of OPEC price increases are estimated to add a further £1,000bn (£580m) of its annual oil bill, and also give a further push to inflation.

There is again renewed speculation in Italy about an increase in fuel prices (including petrol) and/or direct measures to cut energy consumption. However, the picture is complicated by the likelihood of early general elections here.

Leading British industrialists to visit S. Korea

BY MARGARET HUGHES

A TEAM of 15 leading British industrialists, led by Sir Kenneth Keith, chairman of Rolls-Royce, is to visit South Korea from May 7 to 11.

This is the first time that such a high level mission from Britain has visited South Korea and reflects the growing importance of this country as an export market. The British Overseas Trade Board said it had arranged the mission to demonstrate that British industry was interested "at the highest level" in developing trade and industrial co-operation with South Korea.

During the five-day visit, mission members representing such companies as the Dowty Group, Hawker Siddeley, Hill Samuel, ICI, Lazard, NEI, and RTZ will have meetings with Government ministers and senior businessmen. The BOTB is also arranging in conjunction with the Machine Tool Trades Association an all-British machine tools exhibition in

Seoul from May 21 to 26. More than 50 companies will be participating. The BOTB is sponsoring a further 15 trade missions to South Korea later this year.

Britain increased its exports to South Korea by 70 per cent to £130m. Despite this success, Britain's share of the market decreased from 1.4 per cent in 1977 to 1.25 per cent in 1978 (first nine months). It is faced with fierce competition not only from the traditional suppliers—Japan and the U.S.—but from West Germany and France.

The Department of Trade is anxious that British companies do not lose out in this important market where the GNP (at current prices) has risen from \$17.2bn in 1974 to \$38.3bn last year and a forecast \$47.3bn this year. It points out that the South Korean Government is anxious to decrease its dependence on its traditional suppliers.

S. Korea Survey, Pages 15 to 26

Liberians attack France over ship boycott incident

BY IAN HARGREAVES

LIBERIA has protested strongly to the French Government about its failure to intercede in a ship boycott incident reminiscent of the Globik Venus affair two years ago.

According to the Liberians, the French police refused to implement a High Court injunction demanding the release from Boulogne Harbour of a vessel flying the country's flag.

So far, the French Government has not responded to the Liberian request for an explanation of the incident.

The trouble began at the end of February when, following contacts between the ship's Indian crew and representatives of the International Transport Workers Federation (ITF), the seamen came out on strike for ITF pay levels.

Backed by ITF officials, they blockaded the Greek-owned 8,530 grt freighter the Global Med, and at one stage locked the captain and senior officers in a cabin, allegedly without

food and water.

The owner, Trans-Orient Freight Transport Corporation, refused to negotiate with the mutineers, and visits to Boulogne by Mr. George Cooper, Liberia's deputy maritime commissioner, a senior Indian union official and an Indian diplomat from London failed to resolve the matter.

A week ago, the ITF says the owner tried to storm the ship. Tear gas was used by police and one union official was injured.

Mr. Cooper says the owner was simply trying to effect a change of crew in order to get the ship out of port.

On Friday, the shipowner's agent agreed to negotiate with the ITF in Boulogne and has, the ITF says, undertaken to provide back pay totalling \$116,126 to cover the difference between the 32 members' contract rate and ITF pay levels during their period of nine months' service.

The crew was to be repatriated to India, at the owner's

expense, over the weekend and a new crew will, says the ITF, be employed at ITF rates. The ship is expected to sail from Boulogne this week.

Mr. Cooper said his Government was angry at another example of Liberia's legitimate rights being ignored by the French authorities. France is known for its extremely hard line against flag of convenience shipping operations.

The owners' agent yesterday could not confirm the pre-strike level of pay of the Indian ratings, but the ITF said that basic wage was around £50 per month, with an effective rate of about twice this amount.

In the past few months, Liberia has been engaged in a vigorous diplomatic campaign to safeguard the position of its fleet—the largest in the world—against ITF attacks.

The ITF has said that it will step up the attacks, partly to counter this diplomatic offensive.

SHIPPING REPORT

OPEC rises dampen tanker rates

BY OUR SHIPPING CORRESPONDENT

LAST WEEK'S OPEC price increases had a predictably dampening effect on the oil tanker market, especially in the Gulf.

The Harley Mullion weekly index dropped sharply from worldwide 158 to WS148 and in all the major loading areas except West Africa there was an excess of tonnage compared with available cargoes.

Because of the availability of some cargoes at the old oil prices, some shipowners were able to obtain contracts at well above the going rate, but the overall tone of the markets was dull. The rate for a VLCC loading in the Gulf was down to WS32 by the end of last week.

But with OPEC price-fixing out of the way, tanker brokers are predicting a steadier level of demand for vessels, although rates will continue to depend upon the ability of owners to schedule ship movements so as to avoid long queues of ships in particular areas.

The evidence of the last six

months is that they are succeeding to a surprising extent, with the help of their Oslo-based association Intertanko, in achieving just that.

Another sign of an underlying improvement in the market was the report last week that a Swedish operator has taken a 5-year charter on a 262,000 dwt vessel at \$1,525. An even larger Danish ship of 332,000 dwt was fixed for one year at WS32.5, indicating an expectation of slightly improving markets.

In dry cargo trades, the best indication of buoyancy is the difficulty in obtaining details of charters because of secrecy clauses insisted upon by the charterers.

There have been especially sharp improvements in grain business out of Argentina, where rates for a 30,000 dwt ship on the Far East voyage is more than 30 per cent better than rates paid in January. This represents a useful gain, even allowing for higher marooe fuel charges.

There is also a strong level

of inquiry for period charters to counterbalance the effect of volatility in tanker markets, which normally have a marked effect on the rates obtainable by larger bulk carriers.

The most important long-term indicator of all in shipping, the value of second-hand vessels, continues to be positive.

The London-based Faros Shipping company, for example, was able to conclude the sale of the 68,000 dwt bulk carrier Agemnoo, built in 1968, at \$6.15m. The same ship was available at \$5.8m a month ago.

Likewise in tankers, a small 19,000 dwt vessel built 18 years ago found a lot of bidders and went for \$5m, which broker Galbraith Wrightson says is \$0.5m more than the same vessel would have been valued at six months ago.

The sales lists do, however, continue to indicate the diminishing fortunes of P & O, Britain's biggest shipping company, which last week sold three 12-year-old cargo liners for \$2m each to Far East buyers.

£200m Indian engines plant

BY K. K. SHARMA IN NEW DELHI

PLANS FOR a major plant costing Rs 3 bn (about £200m) capable of producing 100,000 engines a year have been formulated by India's Ministry of Industry which is now in the process of restructuring the motor sector.

The plans, which will now go to the Cabinet, envisage the import of foreign technology for the manufacture of engines which could then be farmed out to the car companies which currently produce three obsolete models that are nearly 20 years old.

Mr. George Fernandes, Minister of Industry, recently sought to nationalise the motor industry on the grounds that it has made no technological effort to improve its products. His pro-

posal is now being examined by a Janata Party Committee and will then be processed by the Government.

The present plan for making 100,000 engines to the public sector is thought to be part of the restructuring of the industry which will also involve plants making commercial vehicles. These include Ashok Leyland, which plans to import new technology from its principals in Britain, Tata Engineering and Locomotive Company (Telco), Mahindra and Mahindra (producers of jeeps) and others.

The form of the restructuring has still to be decided by the Ministry of Industry which is keen to introduce fuel-economy engines for all units, hence the proposal that the public sector plant be based on latest

technology. The plan envisages the export of 40,000 engines annually to markets in South East Asia and the Middle East.

Talks on the new engine project have been held mainly with French companies like Peugeot and Citroen but proposals from others are being sought before a final decision is taken.

But plans to attract foreign collaboration for using India as a base for export to developing countries are not making progress, even though labour costs are cheap here and there are already several plants making components for foreign companies which have been involved in discussions feel that costs to India would still be too high for the proposed plants to be competitive with Japanese car companies.

Danes choose Olivetti

BY HILARY BARNES IN COPENHAGEN

THE DANISH savings banks have announced that they will buy about 1,500 computer terminals from Olivetti. The terminals are for delivery in 1981-83. The contract will be worth at least Nkr 250m (about £23.87m).

The decision by the Danish savings banks is a blow to the hopes of Datasab, the Swedish

manufacturer, which is half state owned. The Nordic savings banks jointly bought the first generation of terminals from Datasab.

The Danish savings banks however have decided to invest in the second generation some years ahead of savings banks in Norway, Finland and Sweden.

World Economic Indicators

Country	Units	UNEMPLOYMENT			
		Mar. 79	Feb. 79	Jan. 79	Mar. 78
UK	000s %	1,350.4	1,362.6	1,339.2	1,400.0
		5.7	5.7	5.6	5.9
W. Germany	000s %	Feb. 79	Jan. 79	Dec. 78	Feb. 78
		1,134.0	1,171.4	1,006.7	1,224.3
		5.0	5.1	4.4	5.4
U.S.	000s %	5,881.8	5,883.0	6,012.0	6,090.0
		5.7	5.8	5.9	6.1
Holland	000s %	211.7	211.5	210.5	202.7
		5.1	5.3	5.2	5.1
Japan	000s %	Jan. 79	Dec. 78	Nov. 78	Jan. 78
		1,270.0	1,160.0	1,160.0	1,260.0
		2.0	2.3	2.3	2.8
Belgium	000s %	303.1	300.9	297.1	299.5
		7.6	7.5	7.5	7.5
France	000s %	1,256.2	1,256.4	1,215.3	1,027.7
		5.9	5.5	5.3	4.7
		Oct. 78	July 78	Apr. 78	Oct. 77
Italy	000s %	1,551.0	1,658.0	1,450.0	1,596.0
		7.5	7.5	7.2	8.0



6.00 p.m. A group of dancing girls can give Flotex more punishment in five minutes than office staff give it in months.

Alphonso cooked up coq au vin and fried potatoes to try on Flotex. That's the treatment it gets in restaurants.

Paddy O'Malley and his roadroller giving Flotex the same kind of treatment it has to stand up to in warehouses.

Jim thought oil would never come off Flotex. Car showroom owners could put him right.

These chaps came off the pitch onto Flotex. That's like scores of customers coming off a wet street into a shop.

6.37 p.m.

Mrs. Wilkinson, cleaner, had no trouble getting the Flotex back into spotless condition with her contract cleaning equipment in just half an hour.

Flotex is the perfect floor covering for a huge variety of contract applications, especially in places where you'd never dream of putting ordinary carpet.

It's already been highly successful in hospitals, offices, shops, car showrooms and even warehouses.

If you find our little demonstration hard to believe, we'll send you our brochure with full specifications plus a piece of Flotex to work on yourself.

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Report may suggest further rises for top public servants

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

EXTRA SALARY increases of between 5 and 10 per cent may be recommended for nationalised industry chairmen and other top public servants—who yesterday received rises ranging up to about 25 per cent.

The recommendation will be contained in one of three reports from official pay review bodies covering top salaries, the armed forces, and doctors and dentists. Its objective will be to bring pay rises which were assessed last April into line with subsequent increases in inflation and in the pay of comparable occupations in the private sector.

The recommendations will be especially embarrassing for the Government following the industrial unrest among civil servants covered by general pay negotiations.

It is likely that the review bodies for the armed forces and the doctors and dentists will be sent to the Prime Minister before the General Election. But the top salaries report may not arrive until later in May.

Yesterday's rises were paid to the chairmen and board members of nationalised industries and other top public servants in the Civil Service, armed forces and the judiciary following last year's report of the Boyle-review body.

Wool chiefs seek supremo

Financial Times Reporter

A SUPREMO is to be appointed for the Yorkshire-based wool textile industry.

The post, which is being advertised at a salary of not less than £15,000 a year, is part of a re-organisation which the industry hopes will help boost it in changing trading conditions.

The new supremo, who will have the title of director-general, will be responsible for advising on policy and implementing the decisions of a policy board which is to be set up. He will manage the industry, particularly in its dealings with the Government and Common Market officials, from now, another direction.

The changes, expected to be put into effect later this year, are a move to unify the industry's trade associations by merging them into a network, to keep costs down and to challenge the coal lobby.

At issue is whether the corporation should have the right to import coking coal from Australia to get the best production from its new 10,000-tonnes-a-day blast furnace that will start production at Redcar in summer.

It is likely to be resolved at the Cabinet table rather than between British Steel and the National Coal Board. If a Labour Government is returned in May the coal lobby is expected to secure a ban on the coal imports.

NEWS ANALYSIS • ROY HODSON REPORTS ON NATIONAL INDUSTRIES AT LOGGERHEADS

Problems still facing British Steel

However, it has spent £37m in pit development in the North-east and in the Kent coalfield. That investment, the Board says, is to meet a demand from Redcar.

The working party agreed upon the special blend of coking coal needed to run the new furnace properly.

The coal needs a closely defined reactivity in terms of its chemical qualities. It needs the physical strength as coke to take the weight of iron ore above it in the giant furnace.

In both areas the Board and British Steel agreed that they were moving into new territory as far as use of coking coal in Britain is concerned.

The working party decided upon the type of coking coal needed but failed to agree on how it should be supplied. The best blend appeared to be a mix of a quarter of home-produced and three-quarters of imported coal.

At that point, the two nationalised industries agreed to disagree as to how the coking coal for Redcar should be provided.

The National Coal Board said that it could provide enough varieties of British-mined coking coal to make a suitable blend equal to the mixture of home and foreign coals. British Steel, unimpressed, decided upon a compromise mixture of 45 per cent home coal and 55 per cent imported.

Two contracts have been signed between British Steel and the Australian coal producers. The first is for 300,000 tonnes of medium volatile coking coal each year until 1981. The second is for 250,000 tonnes a year for nine years. The prices are less than £30 a tonne.

The contracts give British Steel some of the best coking coal in the world. The experts do not quarrel on that. Moreover, the Australian prices are £10 a tonne less than the best prices offered by the NCB, which has to deep-mine its coal in difficult conditions.

British Steel maintains that its decision was not influenced by the lower Australian price. It says that it chose the coal on strictly technical grounds as the best raw material to run its new and complicated blast furnace in the most efficient way it knows.

There is much mystique and empirical lore about operating a 10,000-tonnes-a-day blast furnace. It is an operation on a scale never previously attempted in Europe; even in Japan, experience is limited.

British Steel is naturally anxious to reduce the variables as far as possible before the furnace is lit. One area that it can control is the coking coal specification.

LABOUR

End national pay talks, says engineers' chief

BY ALAN PIKE, LABOUR CORRESPONDENT

THE POSSIBILITY of abandoning national wage negotiations in the engineering industry is suggested today by Mr. John Boyd, general secretary of the Amalgamated Union of Engineering Workers.

Mr. Boyd, writing in his union journal, says that when the AUEW national committee meets later this month it must "surely give some thought" to bypassing the Engineering Employers Federation and conducting all negotiations on a company basis.

National minimum rates are now negotiated with the EEF and local negotiations which determine actual earnings follow. The engineering unions are unhappy with a national monthly increase of 5.5 per cent on basic rates in reply to a claim for up to £20.

Mr. Boyd says in his article that employers had no role to play in our modern, fast-changing society other than to try to keep wage rates at a really low level.

To suggest that a craftsman should have a basic rate of only £45 for a 40-hour week—the value of the employer's offering—must force all of us to question the usefulness of any more national negotiations in the engineering industry.

Mr. Boyd launches a strong attack on the EEF, accusing the employers of being "oblivious to all that is happening around them, unresponsive to the challenge of change, blind to the wonderful new future which can be for engineering as we move further into the 'electronic and microprocessor' age."

Both unions and employers in the engineering industry have until now valued the national agreement since it provides, in addition to minimum pay rates, common conditions throughout the industry. The unions now want manual workers' conditions of employment harmonised with those of white collar staff and the employers have offered a working party to consider this.

Brigshaw defends print union's financial moves

BY NICK GARNETT, LABOUR STAFF

LORD BRIGSHAW, former general secretary of the National Society of Operative Printers, Graphical and Media Personnel (Natsopa), issued a statement yesterday defending financial policy decisions by the union during his leadership.

The union is seeking legal advice on whether to take civil proceedings to recover money that might be owed the union from property deals. Inquiries are also taking place into the operation of a Swiss bank account and into companies set up through the union or by officers acting on their own authority.

Lord Brigshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Brigshaw said that he resented the "continuing witch hunt" into the union's affairs. "When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive council of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brian, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Re-election of Tierney boosts union moderates

THE MODERATE leadership of Britain's sixth largest union, the Union of Shop Distributive and Allied Workers, appears to have received a vote of confidence with the announcement yesterday of the re-election of Mr. Syd Tierney, MP, as national President.

He had a 30,000 majority over his Left-wing challenger, Mrs. Audrey Wise, MP.

At the same time the Left-wing candidate for the general secretaryship, the election for which is still taking place, has lost his seat as a member of the national executive. He is Mr. John Dilks, who was convincingly beaten by his two successful moderate challengers.

In the presidential election Mr. Tierney, MP for Birmingham received 188,000 votes compared with Mrs. Wise's 128,000.

In the Midlands executive council election Mr. Ray Seberer of Nottingham, and Mr. Dick Stonehouse of Leicester were elected with 43,000 and 37,000 votes respectively. Mr. Dilks obtained 27,000 votes.

Although Mrs. Wise's defeat means that the union loses its chance of having a woman president for the first time, two additional women were elected to the executive—Mrs. Betty Wardle and Mrs. Loui Woolston—both from Manchester.

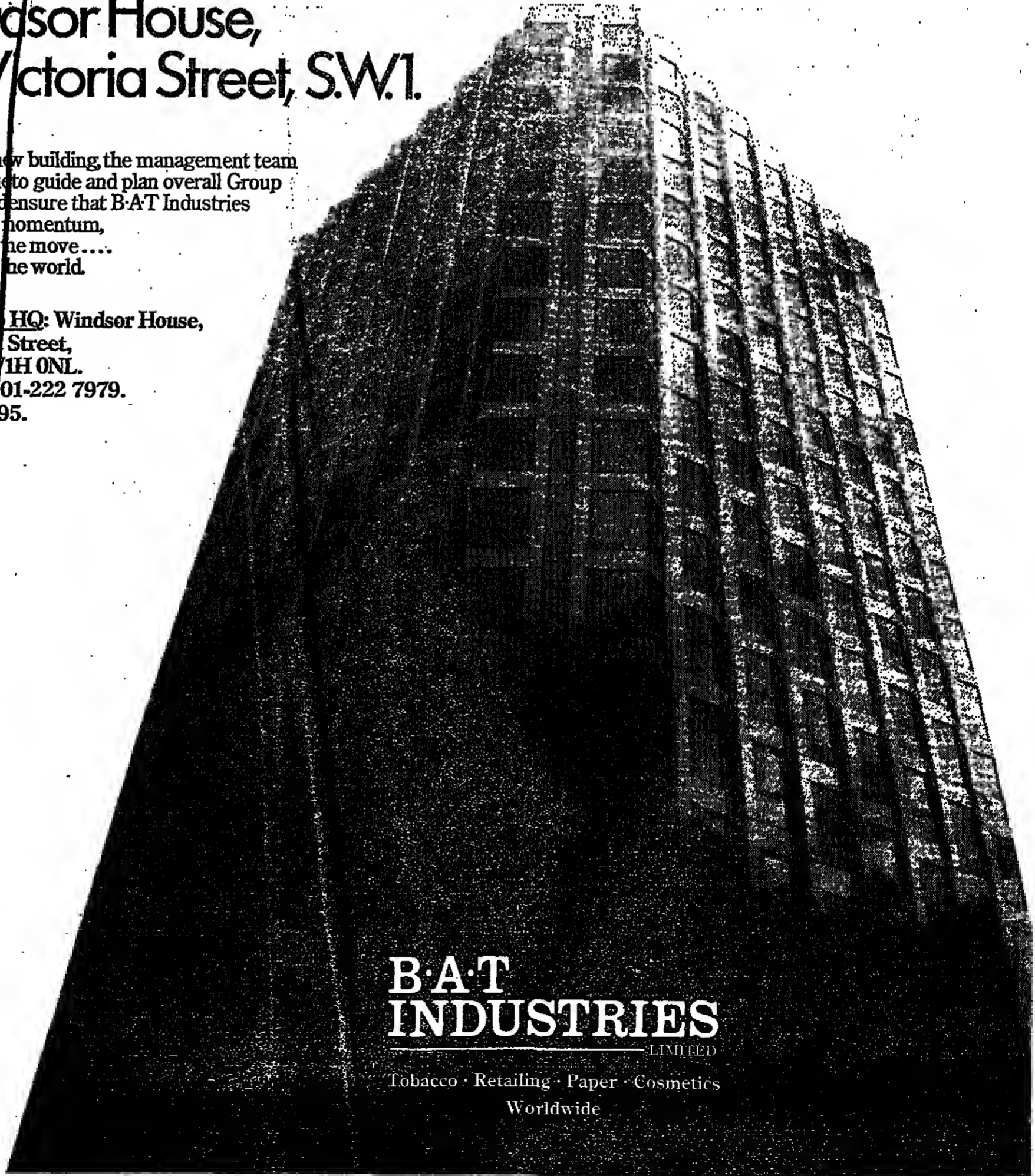
The election for general secretary has been caused by the imminent retirement of Lord Allen, who has led the union for 17 years. The contest is between Mr. Dilks and Mr. Bill Whitley who is the union's chief organising officer and standard bearer of the moderates.

B·A·T Industries on the move...

Today, B·A·T Industries Limited move to new Group Headquarters at Windsor House, Victoria Street, S.W.1.

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Quarterly analysis of bank advances

UK residents by banks in the UK at February 21, 1979; as Table 4 in the Bank of England Quarterly Bulletin.

Table with columns: Bank, Date, Total, Advances to UK residents, etc. Includes London clearing banks, Scottish clearing banks, Northern Ireland banks, All banks, and changes in sterling and foreign currencies.

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Including lending under special schemes for domestic shipbuilding... The figures exclude as far as possible the effect of changes in exchange rates on the sterling value of advances to foreign currencies.

WEEK'S FINANCIAL DIARY

The following is a record of the principal business and financial engagements during the week... BOARD MEETINGS... COMPANY MEETINGS... DIVIDEND & INTEREST PAYMENTS...

Sotheby's to auction Viking bracelet

A 1,000-year-old Viking coin, while on honeymoon, bracelet found on a beach at Paignton, Devon, is expected to fetch £3,000 in auction at Sotheby's, Belgraveia, on June 5.

Architecture medal for Eames

THE Royal Gold Medal for Architecture has been awarded to the office of Charles and Ray Eames, the American design partnership begun in 1941 by Charles Eames, who died last August, and his wife, Ray.

General Cable International N.V.

In accordance with the provisions of the above Notes, Irving Trust Company, as Fiscal Agent, has determined the Rate of Interest payable with respect to Coupon No. 18 on Friday, September 28, 1979 to be Eleven and Seven-eighths per cent (11 7/8%) per annum.

MERCEDES-BENZ advertisement listing various car models and prices.

Ferrari advertisement for Cooper Car Midlands, featuring Ferrari sales and parts.

ROLLS ROYCE advertisement for Silver Shadow, highlighting its features and performance.

Woking Motors advertisement for three new Porsche 911SC sports cars for sale.

Len Street advertisement for a new Daimler 5.3 Squadron blazer.

CONTRACT HIRE AND LEASING advertisement for 50 years experience in motor vehicles.

LEGAL NOTICES advertisement regarding the High Court of Justice Chancery Division.

LEGAL NOTICES advertisement regarding the High Court of Justice Chancery Division.

LEGAL NOTICES advertisement regarding the High Court of Justice Chancery Division.

FOREIGN HOTELS advertisement listing ideal week-end retreats in rural locations.

WE INVITE OFFERS ON advertisement for a 78 Reg. Porsche 911 SC.

LEGAL NOTICES advertisement regarding the High Court of Justice Chancery Division.

LEGAL NOTICES advertisement regarding the High Court of Justice Chancery Division.

LEGAL NOTICES advertisement regarding the High Court of Justice Chancery Division.

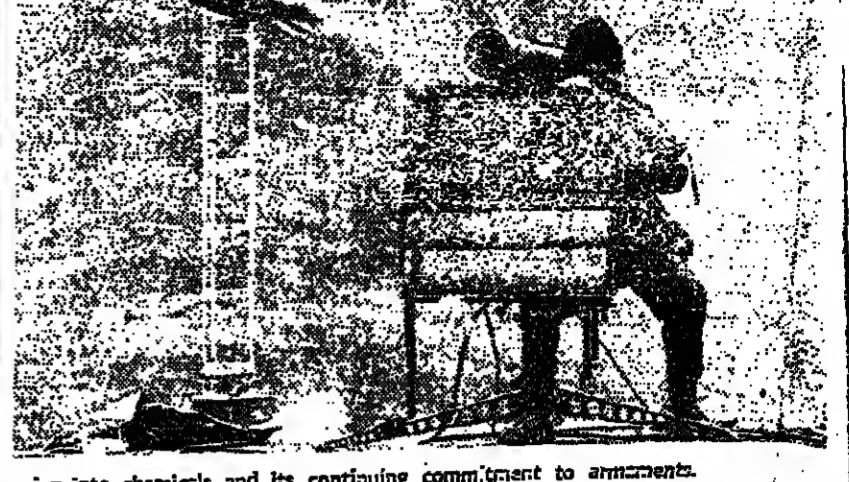
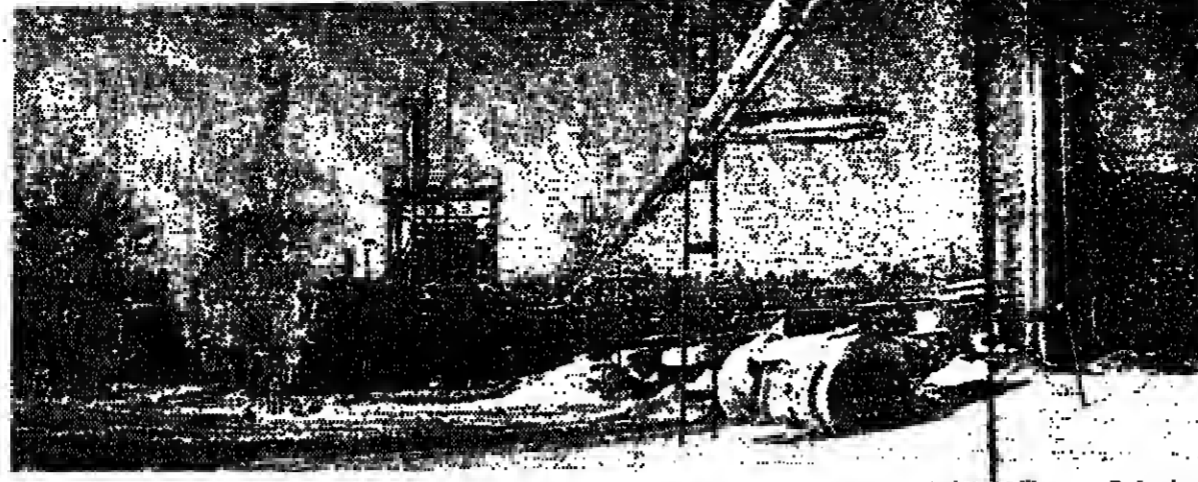
TRAVEL advertisement for Geneva, offering flights from Gatwick.

Large advertisement for Monotype Communications Limited, featuring a man at a typewriter and text about their services.

THE MANAGEMENT PAGE



Claes-Ulrik Winberg (left)—concentrating his mind on getting the right diversification mix; a spent acid plant (centre) and the RBS 70 laser-guided anti-aircraft missile



WHAT DOES a world-renowned arms manufacturer based in a neutral country do, when its domestic market threatens to shrink and public opinion strongly favours disarmament and curbs on trading in weapons? Exploit its technological know-how in less controversial fields and diversify quickly, is the obvious response. But Bofors has been in and out of "civil" production for the past century or so and in the view of Claes-Ulrik Winberg, managing director of the Swedish armaments group, diversification is no CIF answer. Since he took over in 1973 he has eliminated some 20 product groups from the company's range—including some of its steel interests—but he feels that Bofors is still too diversified.

It does not pay, he argues in contradiction of much previous Bofors' thinking, to move into products which the company's workshops have no experience of manufacturing and which call for a widely different marketing and financing approach. This philosophy is born of experience. The ordnance division has continued to be the main source of Bofors' profits, whereas several attempts at diversification have not turned out well. Bofors' strength has lain in its engineering and technical skills. It has been orientated to product development rather than to marketing. Its main customers have been governments and defence procurement departments and it has not been geared to meet the demands of a variegated industrial market. The policy evolved by Mr. Winberg, therefore, has been to develop profitable, new operations out of the group's existing skills aimed at a product market of which it already has experience. This is why Bofors has decided to concentrate on chemicals as a second pillar alongside its ordnance activities and is working the U.S. market. Bofors Nobel, the chemicals and plastics division under a young general manager, Per-

Olof Norberg, currently has a turnover of around Skr 600m (£88m, \$138m) which is less than a quarter of total group sales and half the ordnance division's turnover. But its operating profit has grown from Skr 5m in 1974 to Skr 43m last year. The link with armaments comes through explosives and propellants. In producing the ammunition for its weapons and the fuels for its missiles Bofors had to develop techniques for the safe treatment of explosives and acid concentrations. Bofors Nobel aims to cash in on these techniques by providing specialised materials and services for the chemical and pharmaceutical companies.

Dangerous

Parallel with its explosives production Bofors has specialised in nitration and nitric acid oxidation processes. More recently, to meet new pollution and environmental requirements, it has had to develop techniques for handling the "spent acids" left by the processes. As a result it is now able to take over for other companies the processing of their raw materials and the handling of dangerous wastes, which is often a costly and embarrassing overhead for them.

Pharmaceutical companies, in particular, want to put their money into research and development and into marketing. For an individual company the nitration processing of its chemicals is a small volume but difficult operation with potential pollution problems. Bofors Nobel offers to produce these chemicals at its specialised plants, saving its customers the investment and the pollution headache.

Already the division sells 90 per cent of its chemical's abroad, its largest markets being in West Germany and the U.K. But the greatest potential lies in the U.S. and, at a later stage, poss-

ibly in Japan. In Europe transport overheads are not a problem because the business is in specialised, not bulk chemicals, but to tap the U.S. market Bofors Nobel acquired a small company, Lakeway Chemicals Inc., Michigan, in October 1977. It is now in the process of extending its technology to Lakeway. A spent acid plant will come on stream in the autumn and a new nitration plant should provide extra capacity next year. The possibility of buying up another American company is being evaluated. Mr. Norberg hopes to get U.S. sales up to Skr 150m a year by 1981 and anticipates a 10 per cent annual volume growth thereafter.

The Swedish-based Nobel Kemil remains the largest unit in Bofors Nobel with 40 per cent of its contracts still coming from military customers. A third unit, Nobel Chematur, which has been operating since the 1930s as a chemical engineering contractor, mostly in designing explosives factories, can also benefit from the division's new venture.

The decision to expand on the chemicals side was taken in 1976, when a three-year Skr 200m programme was adopted. It is almost complete. Half or more of the investment has gone into environmental improvements and another large chunk into reovering the existing plant at Karlskoga, so that it is only now that the real expansion of capacity is coming through.

Bofors Nobel is not yet generating enough profit to finance its own investments but Mr.

Norberg's target is to contribute to group cash flow by 1982. His fourth operation, plastics, could provide problems. The odd one out, it does not share the basic technology of the other three units, producing plastic components for cars, trucks and caravans on the civilian side and missile tubes on the defence equipment side. After taking over the plastics operation of the Trelleborg company last year, Bofors currently has con-

siderable over-capacity in plastics and some rationalisation is needed.

While chemicals are regarded as having the greatest growth potential, more than three-quarters of the group's Skr 2.8bn (£320m, \$643m) turnover is still being generated by the ordnance, steel and other engineering operations. Bofors is in no mood to abandon the profits of its weapons manufacturing and attitudes towards the future of the ordnance division at Karlskoga headquarters are by no means defeatist, but steps have already been taken to reduce the group's exposure on the less-making steel side and on Bofors-Nohab, the diesel engine and turbine company.

Bofors has just reported improved pre-tax earnings of Skr 117m for 1978 but as in the previous year the figure hides the wide gap between the profit contribution from armaments and—more modestly—chemicals

and the losses sustained by the steel and engineering operations. The advance payments made under the armaments contracts are also the main source of the good financial income which hoods the pre-tax result.

The uncertainty shrouding the future on the arms side makes it all the more imperative for the management to pare away its cash-consuming operations. The profit criterion is

being re-emphasised and one suspects that Mr. Winberg would happily get rid of the whole steel business.

The ordnance division furnished sales of over Skr 1.2bn last year but, allowing for the explosives and propellants supplied by the chemicals division, Bofors' reliance on defence contracts is proportionally rather larger. Roughly half the group's 14,000 employees work on military contracts. At Karlskoga some 5,500 of the 8,500 employees are directly or indirectly involved in weapons and ammunition production.

Mr. Winberg believes that the ordnance division has probably reached its maximum size. The cuts in Swedish defence spending already foreshadowed mean that to maintain the present volume of production, more export contracts will have to be won. Over the last two years about 55 per cent of Bofors' weapons and ammunition output has gone to the Swedish

defence forces. That proportion will gradually be reduced, possibly by as much as half.

The prospects for increasing export sales, it is felt in Karlskoga, depends more on political attitudes than on having the right products. Recently, the foreign affairs committee of the Swedish Parliament voted unanimously for a re-examination of the regulations governing Swedish weapons exports.

The government has also set up a commission to investigate the opportunities for the armaments industry to switch to "civilian" production. "Forget it," Mr. Winberg says bluntly, "there is no alternative."

Bofors makes guns and missiles to Swedish specifications which ensure that they are fundamentally defensive in nature. This "lock on the door" attitude to defence attracts countries which share Sweden's neutral strategy, and developing countries, whose governments feel the need for a deterrent defence.

Foreign demand for Bofors' weapons is undoubtedly strong, but the politics of Swedish arms exports are complex in the extreme. Bofors sells to NATO countries. Its power-operated L/70 60mm gun, the successor to the one which defended Britain in the second world war, is the main anti-aircraft weapon in many countries' defences. The third generation, system 75, using a proximity fuse and a pre-fragmented shell is in the final stages of co-operation with the Swiss Oerlikon for a U.S. order.

Bofors' portable anti-aircraft

missile, the RBS 70, has been bought by Norway and is being evaluated by other NATO countries. It is being developed for use at night. The 155mm FH 77 mobile howitzer has also attracted foreign attention.

Swedish politicians have to balance ideals and attitudes to world disarmament against the tradition that the country's own defence forces should not rely solely on foreign suppliers and the knowledge that domestically produced weapons are cheaper, if manufactured in larger series than required by the Swedish forces. In practice Swedish authorities have been fairly pragmatic and Bofors has not been deterred from planning its export drive.

But the Government and the Defence Procurement Organisation have been recently to concentrate domestic arms production, particularly on the missile side. Last year Sweden's two producers established the Saab-Bofors Missile Corporation for joint design, development and production of the next missile generation.

Military

If Mr. Winberg has to adjust to the political wind for the half of the group involved with military contracts, he is able to take straightforward business decisions in the other half. The steel operation, which has been operating at a loss for three years, has been trimmed, a reconstruction of the drop forging plant is planned and a partner has been found for the diesel engine operation.

Although in the 1870s Bofors was the first company in the world to cast a gun from steel, there is now virtually no link between its steel and armaments sides. In steel it has had two main operations, the production of high-alloy tool and construction steels and a forge producing chiefly heavy lorry crankshafts. The first operation has been effectively dropped from the beginning of this year under an

agreement with the Uddenholm company.

Bofors' Skr 400m plan for the erection of a new drop forging plant at its Karlskoga works in a joint venture with Sumitomo, which would have supplied the new press, suffered a setback when the Japanese company withdrew. The new press would substantially enlarge crankshaft output and therefore calls for a larger market. There is probably room for no more than four such presses in Europe; two are already operating and a third is being considered. The alternatives for Bofors are to find another partner with both finance and market access, to persuade the Swedish Government to finance a smaller forge or to abandon the whole crankshaft business.

From the other loss-making company, Bofors-Nohab, diesel engine production was transferred last year to a new company which Bofors owns jointly with the Finnish Wärtsilä concern. The idea behind this move was similar to that which prompted the dropping of the tool steel business—that it would be better off outside the Bofors group. Through the Finnish market and Wärtsilä's contacts with the Soviet market, the venture, it is hoped, will have the scope to develop new engines.

Bofors' history goes back to the middle of the 17th century when a hammer forge was built at Boda fors (meaning stream), close to its present Karlskoga headquarters. Alfred Nobel, founder of the Nobel prizes, took over the company in 1894, introducing the ammunition and explosives business with its complementing chemicals production.

After all the twists and diversifications of the intervening years the Bofors with Mr. Winberg is taking into the 1980s remains fundamentally that of Alfred Nobel, an armaments and chemicals concern. The cobbler has found it best to stick to his last.



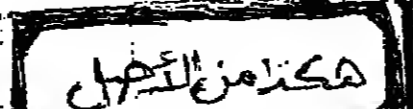
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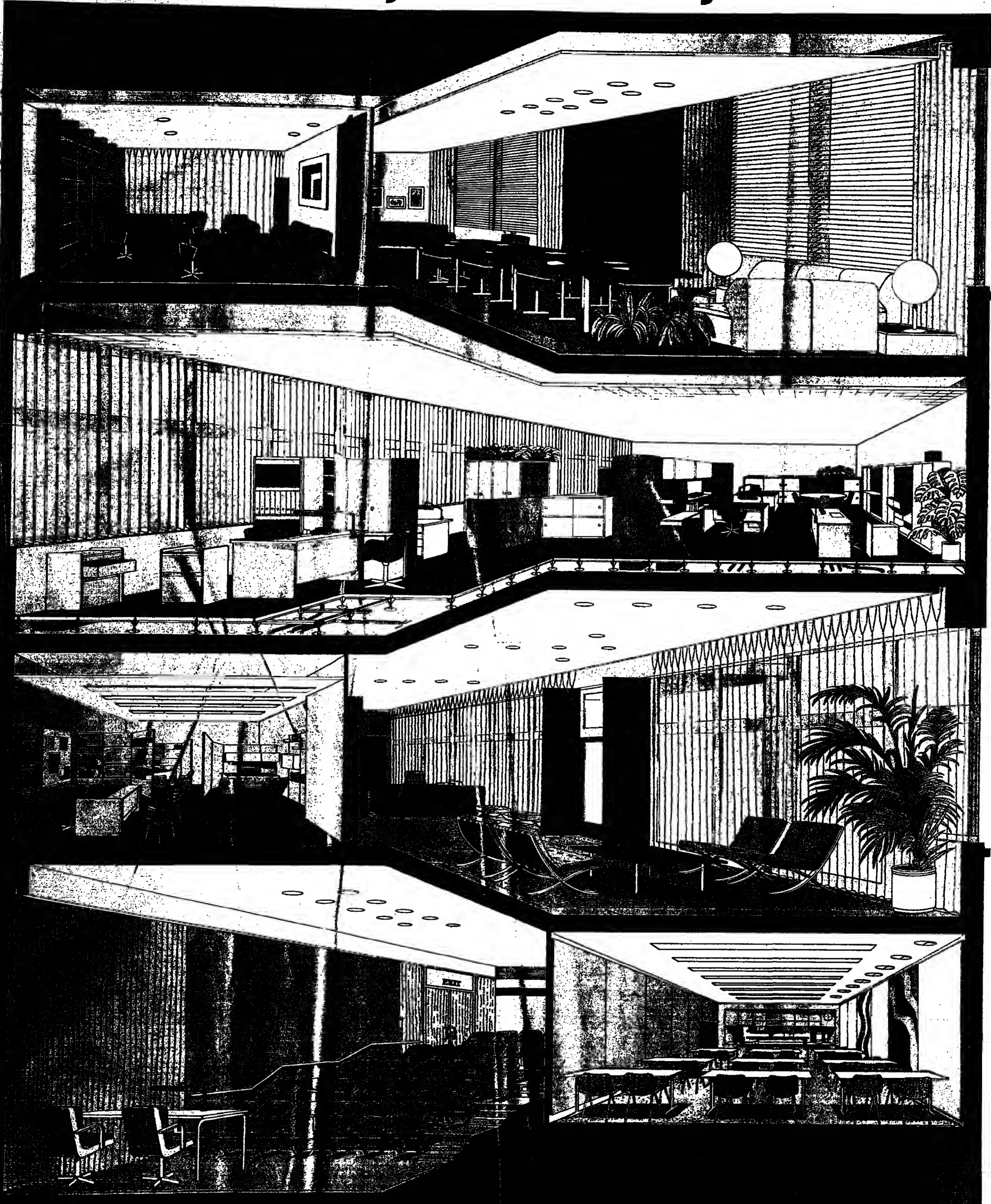
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Case for a new wage formula

BY SAMUEL BRITTON

THE CASE for indexation to minimise the damage caused by high, variable and uncertain rates of inflation...

Business The case for wage indexation is a little more problematic because it is more open to abuse...

Opinion It should be possible to write into contracts provisions for referring to outside economic bodies...

A plausible formula has been put forward by Richard Layard of the London School of Economics...

Sorting out tenants' families and Rent Acts

LEGISLATION giving tenants and their families protection against eviction from their homes continues to pose of awkward problems for the courts...

by virtue of the marriage ceremony. The burning question for a judge was: could effect be given to this changed social attitude...

THE WEEK IN THE COURTS

tenant's family" according to the understanding of the ordinary man. It was undeniable that a social revolution had taken place in the last 25 years...

A close relationship grew up, such that they regarded themselves (as did other who knew them) as aunt and nephew...

It distinguished the 1975 case by saying that the stability and the permanence of the relationship was the key issue...

If that case is virtually distinguishable from the 1975 case, the second case poses even more awkward questions...

National course needs scrutiny

WITH ONLY seven of the 34 starters for the Grand National having completed the course, and riders almost all giving up...

I have little doubt that a gap should have been left in the temporary running rail...

RACING

temporary running rail, erected on the first circuit between the 14th fence and the Chair...

ENTERTAINMENT GUIDE

- OPERA & BALLET, THEATRES, CINEMAS, TV/RADIO listings for various channels and venues.

TV/RADIO

- 5.55 Nationwide (London and South-East only), 6.20 Nationwide, 6.30 A Question of Sport...

F.T. CROSSWORD PUZZLE No. 3,937

Crossword puzzle grid with clues for Across and Down.

LONDON

- 9.30 am Noddy, 9.40 Sinfad Junior Cartoons, 9.45 Swanne River starring David Ames...

ANGLIA

- 9.35 am Betty Boop Cartoon, 9.50 The Fish and the Snow, 10.05 West 11.35 Walking Westward...

BBC 2

- 6.40-7.55 am Open University, 12.45 pm News, 1.00 Pehle Mool, 1.45 pm The Moon...

GRAMPIAN

- 9.45 am First Thing, 10.30 Tarzan, 10.55 Face to Face, 11.20 Country News...

SCOTTISH

- 9.30 am Urillo-A Painter of Paris, 9.50 Fairy of Civilization, 10.45 Face to Face...

SOUTHERN

- 9.30 am Saturday Aik, 10.45 Little House on the Prairie, 11.05 The Golden Age of Comedy...

TYNE TEES

- 9.25 am The Good Word followed by North East News, 9.50 Face to Face, 10.45 Face to Face...

ULSTER

- 10.45 am Face to Face, 11.10 Country News, 11.35 Walking Westward...

WESTWARD

- 9.30 am Friends of Man, 5.55 Master of the World, 10.45 Face to Face...

YORKSHIRE

- 9.30 am Untamed Frontiers, 10.00 Country News, 10.30 Face to Face...

RADIO 1

- 5.00 am Radio 2, 6.00 Dave Las Travas, 6.30 am Radio 2, 6.55 Paul Burnett...

RADIO 2

- 6.00 am News Summary, 6.02 Tony Brandon, 7.32 Ray Moore including 9.27 Racing Bulletin...

RADIO 3

- 6.55 am Weather, 7.00 News, 7.02 Overlooks, 8.00 News, 8.05 News...

BBC Radio London

- 6.00 am Graham Oane's Breakfast Show, 6.30 am Radio 2, 7.00 News...

Capital Radio

- 6.00 am Graham Oane's Breakfast Show, 6.30 am Radio 2, 7.00 News...

BBC Radio Broadcasting

- 5.00 am Morning Music, 6.00 The AM Show, 10.00 Brian Hayes...

Capital Radio

- 6.00 am Graham Oane's Breakfast Show, 6.30 am Radio 2, 7.00 News...

EXHIBITIONS

- GLASS OBSERVING KENNEDY, CLASSIC WORKS OF GOLD, PETER BLAKE exhibition...

THE ARTS



CAMDEN FESTIVAL

Round House

Don Quixote by RONALD CRICHTON

Paisiello's *Don Chisciotte*, a Neapolitan opera buffa of 1789 was re-worked over two centuries later by Hans Werner Henze for the summer festival at Montepulciano. The public square of a Tuscan hill-town is a more sympathetic place than the Round House and there the up-dating may have worked. In Phoenix Opera's staging for the Camden Festival last week—the first "opera in the round"—it seems in these islands, and Lord! what prospects that calls up—the joke turns heavy and goes on for too long. That is a pity for the music, or what one hears of it through the galumphing, is attractive.

Paisiello turned out opera like ice-cream, but he was a good confectioner, not to be despised—his *Barber of Seville* can still be heard with pleasure in spite of Rossini. Henze seems to have worked on his original fairly freely, re-composing it for a chamber ensemble for the

main intrigue and an amateur wind-and-brass band for Quixote's major flights of fancy. The Koeling ensemble, at the Round House at least, is poked away in holes in Ralph Kolta's otherwise ingenious set, the big band (from William Ellis School) is up in the balcony. The contrast is effective and the dovetailing neatly done by the two conductors, Jan Latham-Koenig (down) and Richard Hickman (up). The small ensemble includes instruments Paisiello never knew. With their aid Henze has contrived some entertaining accompaniments, though one or two of the percussion effects come round too often. Because the producer Tim Hawkes has chosen a knockabout, jockey style with bawdy oaths uttered in the winding way English opera singers use when they are trying to act like real comics, one has the uncomfortable feeling of missing good things from the half-submerged downstairs

orchestra (the balcony band has it easier). Judging from the amount of ill-tuned singing, some of the performers also found it difficult to hear the small orchestra. Exceptions were the circumspect Kenneth Bowen as Quixote, Alan Opic as Sancho Panza, Kate Flowers as Luscinda and, when she was allowed to stand still and sing, Allison Hargan as the Countess. Sancho and Carmosina had the two most tuneful numbers—for her a six-eight solo in the first part, for them both a pretty duet towards the end of the opera. The story deals with the efforts of some up-country gentry to make sport of Quixote (in fact they spend more time on their own uninteresting love-affairs) and the knight's ability to rise serenely if doltily above them and their pranks. It hardly needed a theatre musician of Henze's calibre to make the point.

Teatro alla Scala, Milan

Mosè and Bohème

by RONALD CRICHTON

An event of the present season at La Scala has been a revival of one of the grandest of Rossini's serious operas, *Mosè*. This is the usual title for the Italian version of his *Mosè in Egitto* produced in Paris in 1827, a recomposition and expansion of the earlier *Mosè in Egitto* given at Naples in 1818—Rossini revised the third act the following year, adding the work's most famous number, the Prayer "Dal tuo stellato soglio". *Mosè* was his last opera but two. Only *Le Comte Ory* and *Guillaume Tell* were to follow. The Prayer apart, there are no single numbers which have become popular, yet the grandeur and mastery of this opera of choruses and ensembles has kept it in the repertoire even when interest in Rossini's serious side was minimal.

The new Scala version is *Mosè* sung in Italian, revised with one eye on the first Italian edition (of the score) by Jesús López Cobos, who conducts the performances and is preparing a new critical edition of the score. Producer and designer are Luciano Damiani. The results have not provoked much enthusiasm, yet the production is not a fiasco—re-planning of the lighting and stroger all-round casting would make all the difference. In a discussion with the producer, López Cobos claims that the version given is "almost" complete, but admits cutting some repeats, mainly it seems for the benefit of the singers. This does not necessarily benefit Rossini, whose big structures become lop-sided.

Moses was the Russian bass Evgeny Nesterenko, the voice ever more imposing and richly coloured, dignified in his slow movements yet never fully commanding the stage until the Prayer in the last scene. The Pharaoh of Simon Estes, though seated on a throne for much of the action, had more character. His lighter, more incisive singing, told well against the other. Of the ladies only Julia Hamari as Pharaoh's wife Sinaiade made much effect—her scene in Act 2 (the first two acts were done without a break, and very long if they seemed) was brilliant not only for the relish and confidence with which Miss Hamari sang Sinaiade's music but because during this scene she was brightly lit.

The production as a whole was a curious demonstration of how in the opera house ear and eye interact. *Mosè* is much concerned with darkness, most of it summoned up by the protagonist. But stage darkness can be simulated without creating confusion—it doesn't need follow-spots to make the singers' features clear enough to be recognisable. I am still not absolutely certain that I correctly identified Elisero—

the name given in the libretto to the brother of Moses—though one tenor voice presumably belonging to Giampaolo Corradi was lighter and more agile than the sound made by Vincenzo Bello, who sang the heavier (and very demanding) first tenor part of Pharaoh's son Amnophis, whose love for the Jewish girl Anicie complicates the efforts of Moses to lead the Jews out of Egyptian captivity.

This fundamental miscalculation was the stranger for Damiani's professed intention to make *Mosè* more drama than oratorio (Rossini's description of the original was *azione tragico-sacra*) but what came out was precisely an oratorio, seen more over by emergency lighting. This was a pity because Damiani is a designer of great talent. Though his use of a billowing white canopy-cloth above the acting area to symbolise the various plagues became monotonous, his sand-duo sets, splendid but not gaudy costumes and elaborate attributes (banners, throbes, canopies) for Pharaoh and his court save pleasure when they could be seen. The crossing of the Red Sea was effectively managed with more billowing cloths, this time lower down.

The obscurity on stage no doubt added to the audience's irritation. The upper reaches of the house objected to the ballets (there was a clumsy device of blackouts to get the chorus off and on again) though they were competently done to choreography by Geoffrey Cauley. The gallery also gave the hard to poor Amnophis, namely as he wrestled with his weight. But they applauded the Anacle of Maria Barazzini for her strong top notes, overlooking some ill-tuned smudging lower down. Luigi Roni sang the priest Osiride, completing the Egyptian team, vocally at least stronger than their adversaries.

The orchestral playing under Jesús Cobos was clear, well-ordered and generally distinguished yet short of majesty for things like the brass accompanied recitative of Moses. "Eternal! immenso! incomprendibile Dio!" Considering the limitations of some of the singers the big ensembles went pretty well, notably "Mi manca la voce" full of Verdi premonitions in Act 3 and the superb G minor introduction to the previous act with the snake theme winding its way through key after key. The Prayer in its cunning simplicity made the usual rousing effect.

Royal Court

Cloud Nine

by B. A. YOUNG

"You write so well, and have so much learning." Richard Strauss said to Hindemith, "that I wonder you do not write music." I feel a similar emotion about Caryl Churchill. *Cloud Nine* is full of good lines and effective little situations: but at the end of it I felt we had seen nothing more than an enjoyable exhibition of the splendid acting of the Joint Stock Theatre Group.

The play is in two distinct halves. The first employs all the current disparaging ideas about the Colonial era. It is as ill-informed as it is ill-natured, but neither characteristic matters much, since it takes the form of a cartoon to which historical accuracy is not essential. Clive, played by Antony Sher, is a Colonial archetype, and Betty (Jim Hooper) his archetypal wife. Their small son Edward (Julie Covington) is different, however: he plays with dolls and has dirty secret games with Harry Bagley, the great, but gay, explorer (William Hoyland).

Establishing this pattern appears to be all that the first act aims to do. The second act, set in our own time, also confirms itself to setting a pattern, but it is a very different one. Edward, now played by Jim Hooper, lives with another man of dubious fidelity. His sister Victoria (Miriam Margolyes), who was only a doll in Act 1, is now married, but is thinking of leaving her husband to go and work in Manchester. She also leans towards a lesbian relationship with Lin (Carole Hayman), a single parent with a tiresome daughter Calby (Antony Sher), who vies with her in foulness of mouth.

But here it is all over again, nothing but actual or potential switching of partners, the sexual preferences being casual in the extreme. Should we learn something from the comparison of the two worlds? I learnt nothing, I'm afraid. That the Joint Stock Company is talented and versatile I knew already, and that Max Stafford-Clark is a director of elegant talent. If the aim is to show, as the theme song suggests, that any kind of sexual union may be blissful, this is old news by now, and was indeed demonstrated rather more clearly in the simple unsophistication of Rony Robinson's piece at the Theatre Royal, Stratford, yesterday.

If this was not the aim, I am sorry to have missed something that I have no doubt I should have been wiser for knowing. Meanwhile, I can at least repeat that the playwright of the company, transsexual or otherwise, is matchlessly good.

Two singers win Miriam Licette award

The £1,500 Miriam Licette singing scholarship has been awarded, for the first time, to two singers, the Arts Council has announced. They are Anna Marie Holroyd, 23, of Headington, Oxfordshire, and Mary King, 26, of West Hampstead, London.

The scholarship is awarded annually to female singers under the age of 30 for advanced study in Paris.



Julie Covington and Jim Hooper

Logan Hall

Janet Baker by ELIZABETH FORBES

The Camden Festival drew to a triumphant close on Saturday night with a recital, given by Janet Baker and Geoffrey Parsons at the Logan Hall. Rarely can artistry and dedication have been presented in such pure, intense form. Many singers treat an opening group of orie antiche merely as a means of warming up their own voices or of settling the audience's attention. Not so Dame Janet, who lavished all her interpretive skill on each and every item in the programme and from the first note of the first song—Caldera's "Sei sempre"—held her listeners in the vicarious grip of her own concentration. Maria's tenderly regretful "Plaisir d'amour" established a mood of sorrowful love that Pergolesi's "Ogni pena" further explored.

In the next group it was a particular pleasure to hear several *Lieder* by Mendelssohn sung without a trace of condescension. The piano playing of Geoffrey Parsons contributed greatly to the enjoyment of these accomplished if scarcely

intellectual settings. The elfin charm of the accompaniment to "Nene Liebe" brilliantly evoked Heine's poem while in the familiar and well-loved "Auf Flügeln des Gesanges" also a setting of Heine—singer and pianist together achieved a simplicity and directness of utterance entirely free from false naivety. In "Nachtlied" Dame Janet's exquisitely fine-spun line had the strength as well as the delicacy of silk. The more robust humours of "Hexentanz" were expressed in appropriately full, resonant tones.

This rewarding partnership, with Lia's Air from the same composer's cantata *L'Enfance prodigue*, the feeling of passionate agony in the repeated cries of "Azah! Why did you leave me? contrasted effectively with the gentler emotions of Mendelssohn and Fauré.

Three songs by Debussy included the beautiful "L'après-midi à Fenêce", whose twilight spirit was echoed and intensified by the last song in the recital, Stanford's setting of "La belle dame sans merci." Where Debussy and Björnson evoke an atmosphere of sad but harmless fantasy, Stanford and Keats attain a frightening and sinister magic that was powerfully conveyed by the singer. Finally, Dame Janet gave two encores to demonstrate her versatility. In styles quite different from the poetic tone of her main programme, Mozart's "Alla luce" served to show off her technique; honour crept into the hitherto serious proceedings with "I just love my voice," a sentiment whole-heartedly shared by the enthusiastic, capacity audience.

Fenton House

Joseph Payne

This somewhat surreal recital was entirely devoted to contemporary American harpsichord music and was given by a player who has won some favourable comments for his recordings of Bach's French Suites, now re-released in this country.

On this occasion Mr. Payne seemed all-at-ease, as well he might. His six pieces, representing a lively interest in which American composers have shown in the bright, percussively-plucked possibilities of the harpsichord, were all surely designed for a sophisticated reproduction instrument complete with foot pedals, automatic gear change and overdrive (as irrelevant practitioners are wont to call these helpful modern aids).

But at Fenton House—Mr. Payne was faced with a lumbering 1770 Shudi-Broadwood—possessing "it" is true, two manuals and plenty of stop changes, but very hard to manoeuvre and by no means exactly in time. Indeed Payne's own semi-improvisatory *Omphalos* was marked by a long silent tussle with a recalcitrant hand-stop which did not increase the piece's coherence. Most substantial was Daniel Pinkham's soberly winding *Paritta*, a serious piece of "location. Too much else was music piecemeal, Norman Dello Joio's *Homage to Scriabin* was shock-

ingly flip, with a smoochy tune and squareness of rhythm that owed nothing to the 18th century and everything to Hollywood.

Ann McMillan's *April Episode* was a nicely astringent miniature, the world premier of Robert Stern's *Fantasia* on a motif by De Florentia seemed to be over before the motet had even been properly stated. But I am wary of judging these pieces in the circumstances; and I am even more wary of judging Mr. Payne from his performance on a harpsichord which became progressively more unpleasant to listen to. Surely the Camden Festival could have afforded a tuner in attendance?

Capital Radio to encourage drama

In an attempt to encourage more drama for broadcasting, Capital Radio is awarding a £750 prize to a new writer and the chance of having a play on the air. The award is being made through the Greater London Arts Association

(which, at the same time, is offering a similar prize for a play for a small touring company to perform).

The awards are open to anyone over the age of 15 who lives, works or studies in Greater London.

"trooper" for example, after its two meanings (British and American) you will find the phrase "swear like a trooper," and also a warning note: "Do not confuse with 'trouper.'" Under "trouper" besides the definition and the phrase "a good trouper," comes a cross-reference again to "trooper"; also, in case you should be tempted to pronounce "trouper" like "trousers" or "trout," there is a clear indication of its pronunciation.

The previous evening brought a chance of seeing the famous Zeffirelli production of *La Bohème* only five years younger than the equally historic Visconti *Don Carlos* at Covent Garden, with Kleiber conducting and a cast difficult to better today. The staging has

FOOTBALL BY TREVOR BAILEY

Arsenal to Wembley with win over Wolves

ARSENAL BEAT a sadly inept Wolverhampton Wanderers by 2-0 to reach Wembley for the second time in succession.

In last year's semi-final they outlasted Orient, who looked an indifferent Second Division team and played like one, while on this occasion it was easy to understand why Wolves are still in the relegation zone.

The Midlands can consider themselves fortunate that there are so many indifferent First Division teams, because in a vintage season they would surely go down.

The first 45 minutes were slow and seemed to last twice as long, containing those ingredients responsible for so many indifferent semi-finals.

The fear of defeat dominated everything else, with two four-man midfield formations more concerned with providing additional cover for their respective rearguards than support for the two-man forward lines.

It was full of frantic running, heavy distribution and mistakes. The main attacking play was the high punt upfield and the

most popular pass was back to the goalkeeper.

Even in that painful period the Gunners provided 80 per cent of the football and 90 per cent of the ideas, so that it came as no surprise when they took control after the interval. Stapleton, whose skill, courage and effort proved a constant source of embarrassment for a suspect back four, deservedly gave his side the lead with a spectacular shot. Later his partner upfront, Sunderland, pounced on a defensive error to shoot under the advancing keeper.

The Gunners now have the opportunity to make amends, not for losing the final against Ipswich, but for the way they lost it.

Can they do it, even though their new opponents, either Liverpool or Manchester United, will provide more formidable opposition?

The answer is an unqualified yes. The present Arsenal, although it may be little better as a footballing combination than the one that froze at Wembley, does possess more character and experience.

These two virtues count for much on the big occasion. It enabled them to pull out that little extra when things were not quite clicking in the first half.

It also allowed them at Villa Park to overcome the considerable handicap of being without their world-class international and main inspiration Liam Brady. The outstanding sides are not those who win when playing well, but those who still win when not at their best.

There are other omens in Arsenal's favour. Losing FA finalists who return in the following year have a good record of success.

Since the war Manchester United, Manchester City and Charlton Athletic have all triumphed at their second attempt.

Favourites also have had an unhappy record at Wembley in recent years, falling, indeed, on the last three occasions. This time the Gunners are unlikely to be the fancied side.

The biggest threat to Arsenal's capturing the Cup could well be their lack of high-quality cover.

Although young Gattin performed admirably within his limitations and looks a fine prospect for the future, he is not yet the class First Division half-back he should become.

Messrs. Neil and Howe have to try to see their players avoid injury, but at the same time they cannot afford to have them hold back in League matches.

This could so easily bring about a losing sequence and undermine the existing high morale, especially as Liverpool will continue to churn out the right results, Manchester United seem to have struck their best form, and both have exceptional back-up squads.

The Barnwell and Barker combination which took control at Molineux in November, when the club appeared to be inexorably heading down into the Second Division, have done a splendid rescue job with limited playing resources.

Their tactical policy has been deliberately and inevitably forged, with the emphasis on exploiting mistakes by the opposition and not giving the ball away themselves, rather

than creation; bread-and-butter football, with little butter and no jam.

If his team avoids relegation, then John Barrowell can rightly claim that his rather dull methods have been fully justified.

In his brief, lucid and admirably fair summing-up to the Press after the match, John showed that he recognised the need to rebuild next season.

His present team may have been good enough to reach the semi-final though it must be mentioned that they never encountered First Division opposition on the way, but it was all too obvious on Saturday that they simply did not possess the class required to win honours in England and Europe.

It will probably take the Barnwell-Barker partnership two, perhaps three years to bring real glory back to Wolverhampton, but this pair have the ability and the determination to succeed.

It is to be hoped that the Midland supporters, who are inclined to be impatient, do not expect an overnight miracle.

NS

BUILDING SOCIETY RATES

Deposit	Share	Sub Pn	Term	Shares
rate	accounts	shares		
%	%	%		
Abbey National	7.75	8.00	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Aid to Thrift	8.25	8.75		
Alliance	7.75	8.00	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Anglia Hastings and Thanet	7.75	8.00	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Bradford and Bingley	7.75	8.00	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Bridgewater	7.75	8.00	9.50	4 yrs., 9.10 2 1/2 yrs., 8.75 2 yrs.
Bristol and West	7.75	8.00	9.25	
Bristol Economic	7.75	8.00	9.25	8.25 3 months notice
Britannia	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Burnley	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Cardiff	7.75	8.50	9.00	
Catholic	7.50	8.20	9.00	* S-40 over £5,000
Chelsea	7.75	8.00	9.25	8.75 6 mths. not. £500 min. 8.50 3 mths.
Cheltenham and Gloucester	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Citizens Regency	7.75	8.30	9.50	9.55 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
City of London	8.00	8.30	9.25	9.35 3 yrs. increment share min. £500
Coventry Economic	7.75	8.00	9.25	9.00 3 yrs. min., 8.50 3 mths. notice
Coventry Provident	7.75	8.00	10.00	9.50 4 yrs., 9.25 3 yrs., 8.75 2 yrs.
Derbyshire	7.75	8.00	9.25	8.50 up to 3 months' notice
Ealing and Acton	7.75	8.50	—	9.15 2 yrs., £2,000 minimum sum
Gateway	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Greenwich	6.45	8.10	9.25	9.60 4 yrs., 9.10 3 yrs., 8.25 2 yrs.
Guardian	7.75	8.25	8.50	9.00 £1,000 3 months' notice
Halifax	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Heart of England	7.75	8.00	9.25	9.00 3 yrs., 8.50 3 months' notice
Hearts of Oak and Enfield	7.75	8.25	9.75	9.35 3 yrs., 9.00 2 yrs., 8.71 1 yr.
Hendon	8.00	8.50	—	9.00 6 months, minimum £2,000
Huddersfield and Bradford	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 mths.
Lambeth	7.75	8.30	9.75	9.00 3 months' notice, £250-£5,000
Leamington Spa	7.85	8.10	10.00	8.85 2 years. ■ 3 years
Leeds Permanent	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Leicester	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.25 3 mths.
Liverpool	7.75	8.00	9.45	9.10 3 yrs., 8.60 2 yrs., min. £1,000
Luton Goldhawk	7.75	7.85	9.75	9.25 2 yrs., £9.00 1 yr.
Melton Mowbray	7.85	8.10	9.25	8.85 2 yrs., minimum £2,000
Mornington	8.25	8.75	—	
National Counties	8.00	8.30	9.30	9.40 6 mths., 8.75 3 mths., min. £1,000
Nationwide	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Newcastle Permanent	7.75	8.00	9.30	9.50 4 yrs., 9.30 3 yrs., 9.00 2 yrs.
New Cross	8.50	8.75	—	
Northern Rock	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Norwich	7.75	8.00	9.50	9.00 3 yrs., 8.75 2 yrs., min. £500
Paddington	7.40	8.40	10.00	9.00 3 mths., 9.25 6 mths., min. £1,000
Peckham Mutual	8.00	8.50	—	
Portman	7.75	8.00	9.25	9.00 3 yrs., 8.75 2 yrs., 8.25 3 mths.
Principality	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Progressive	8.00	8.25	9.25	9.50 4 yrs., 9.00 2 yrs., 8.75 3 months
Property Owners	7.75	8.50	9.75	9.00 3 months' notice
Provincial	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Skipton	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Sussex Mutual	7.75	8.35	10.00	9.30 3 yrs., 9.00 2 yrs., 8.75 1 yr.
Town and Country	7.75	8.00	10.00	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Walthamstow	7.75	8.10	9.20	9.60 4 yrs., 8.85 3 mths. not min. £500
Woolwich	7.75	8.00	9.25	9.50 4 yrs., 9.00 3 yrs., 8.50 2 yrs.

* Rates normally variable in line with changes in ordinary share rates.
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Monday April 2 1979

Security is not enough

IT WOULD be impossible to prove, and it is in any case not very likely, that the present outbreak of attacks by the Provisional IRA and other related bodies would have been less vicious if British policy towards Ireland over the past year or so had been different. Acts such as the assassination of Mr. Airey Neave and the British Ambassador to The Hague, Sir Richard Sykes, appear to be those of people who are pursuing violence for its own sake and who are not open to any kind of political argument. They are to be utterly condemned.

Warnings

At the same time, however, it would be hard to maintain that British policy recently has been a conspicuous success. Mr. Roy Mason, the Secretary of State for Northern Ireland, deserves some credit for the way he helped to improve security and even to attract some economic investment to the province. Yet it has been a warning for some months that the reduction in the level of violence has gone about as far as it can possibly go under present policies. Both police and army officers had been warning that the Provisional IRA had undergone a period of reorganisation and that it was preparing to strike more efficiently and at a strategically wider range of targets than in the past. In that sense, the events of the last few weeks are not entirely surprising.

There must also be some doubts about a policy which continues to pour money into Ulster without any economic justification. The Kilroot power station, which will produce enormous excess capacity, is one example. Another is the DeLorean car plant, which simply went to the bidder who was prepared to offer the highest public subsidy.

The tightening of security as practised by Mr. Mason was desirable in itself. There might also have been something more to be said for his policy of distributing financial largesse if it had been accompanied by a political dimension. All too plainly, it was not British policy towards Ulster, especially in the last few months, has been characterised by an apparent readiness to lean towards the Unionists at the expense of the Catholics. The Bill to increase the number of Ulster MPs at Westminster may have been justified on the grounds that the province is seriously under-represented in comparison with other parts of the UK. But it was widely seen as a device to keep Unionist support in order to buy the Government in power a little longer. It is also inexcusable that it should have contained no provision for proportional representation, despite the special Ulster circumstances. The principle of "power-sharing" or whatever similar term one chooses to use—seems to have been dropped.

In these circumstances, it is understandable that the Catholic community in Ulster should have become more isolated and more alienated. That is not to say that there is much support for the Provisional IRA and its offshoots. Indeed it is striking that one of the most moving tributes to Mr. Neave came from Mr. Gerry Fitt, the sole representative at Westminster of the Social and Democratic Labour Party. But it is to say that there is a dangerous political vacuum in which support for the IRA could yet grow.

No government is more aware of this than that of the Irish Republic. For ultimately the IRA threat to Dublin is greater than it is to the British mainland. In Britain the violence can be almost certainly contained, though at a price, but in the Republic it is a potential threat to the very system. That is why Irish governments no longer seem to condone IRA activities. Their co-operation with the British authorities in security matters is now almost complete. There is also no longer any official demand for the withdrawal of British troops from Ulster.

Objective

Yet there remains one element in the Irish position that the British Government has recently overlooked. It is that the search for a political settlement that takes account of the Catholic community in Ulster should not be forgotten. After the killing of Mr. Neave security will again have to be tightened. But a security policy alone is not enough. There must also be a political objective. That will be a major task of the next British government by whichever party it is formed—even if it means going back to Sunningdale.

A temporary price freeze

AS WAS ONLY to be expected in the run-up to the general election, Mr. John Silkin, the British Minister of Agriculture, has been claiming a good deal of credit for the outcome of last week's farm price talks in Brussels. It is not clear, however, that the result was all that much of a triumph, either for Britain or for the Community at large.

It is true that Mr. Silkin argued, with admirable persistence, in favour of the Commission's proposal that there should be a general freeze of the national "common" prices, but it would be an illusion to suppose that his arguments have won over his opponents in other member states. If in practice there will be a price freeze for at least three months, this is not because the Nine positively agreed, but only because they remained deadlocked, and his little option but to extend the current price regime.

Doggedness

The defeat of the British Government and the imminence of the election campaign ruled out the convening of another farm ministers' Council in the near future, and the earliest date that negotiations can resume again will be the middle of May. Since no-one expected agreement to be reached at the first or even the second session of the new round, it seemed prudent to assume that current prices would have to remain in force until the end of June. Mr. Silkin by his doggedness, and the government by its defeat in the House of Commons, have certainly delayed any increase in the "common" price levels. But it would be premature to assume that the principle of a price freeze has made substantial headway in the Council of Ministers.

The other side of the coin, of course, is that the deadlock over prices also included a deadlock over the Commission's proposals for new taxes on milk production. These taxes cannot now be imposed, on the best hypothesis, until September. It is a safe bet, therefore, that the milk surplus, which is already pre-eminent among the expensive scandals of the common agricultural policy, will become even larger and more expensive this year. Last year intervention buying of surplus milk cost the Community £2.5bn, and preliminary esti-

Compromise

In that sense the only positive decision which did emerge from the Council—the devaluation of the British, French, Italian and Irish "green" currencies—was a tolerable compromise with reality. Farmers in these countries will get a small increase in prices (though still less than the rate of inflation), while German farmers, whose prices are already for the highest in the Community, get no increase. The trouble with the Silkin approach is that, by its exclusive concentration on the electrically appealing slogan of a price freeze, it has prevented substantive negotiation on other less dramatic measures which could have played a useful part in curbing surpluses and reforming farm structures in Europe. Any reform of the farm policy is bound to be a slow process, and it is bound to be more complicated than Mr. Silkin's plan for a four-year price freeze. The name of the game is negotiation, not confrontation.

THE PENNSYLVANIA REACTOR ACCIDENT

A major setback to U.S. nuclear power

By David Lascelles in New York and David Buchan in Washington

A MERICA HAS gone through a tense weekend watching and waiting while engineers grappled with the country's worst nuclear accident to date—a crippled and leaking nuclear power station in Pennsylvania.

By yesterday, five days after the cooling system at the Three Mile Island plant in the Susquehanna River had failed and radioactive steam had spewed into the atmosphere, it was still not clear how the emergency would end. Pressure and temperature in the damaged reactor core were high. Nobody could get near because of escape radiation. It will probably not be possible to approach it before tomorrow or Wednesday.

Danger likely to recede

Although the reactor was stable, the cooling process was complicated by the presence in the core of a steam and hydrogen bubble. Officials feared it could force out cooling water as pressure was reduced and expose the fuel rods or explode itself.

It appeared though that the worst catastrophe, reactor melt-down—which officials of the Nuclear Regulatory Commission said earlier could not be ruled out—was unlikely and that the danger was receding as time passed.

Even if the emergency ends in the next few days, and the thousands of people who fled the area return safely to their homes, the incident is little short of a disaster for the cause of nuclear power. The case for it had just begun to gain momentum because of fuel shortages caused by the Iranian crisis. The repercussions of what happened at Three Mile Island may well spread to other countries engaged in the nuclear debate.

It is the second nuclear story to reach the headlines in two weeks. In mid-March, five atomic power stations were shut down because of faulty design. Not surprisingly, shares of nuclear companies slumped in Wall Street at the end of last week.

The accident was triggered in the early hours of last Wednesday by a faulty pump and made worse by human error when an emergency cooling system was mistakenly turned off, overheating the core for a time. Subsequently some of the water which had leaked on to the reactor floor was mistakenly piped to an auxiliary building which had no radiation filters. What was originally presented as a minor accident escalated in the next two days as complications developed with cooling, and radioactive steam escaped from the containment building.

By Friday, the Governor of Pennsylvania, advised pregnant

Growing energy problems

For the backers of nuclear power all of this is most unfortunate, since the accident happened just as the country's mounting energy problems might well have brought about a shift of public and congressional opinion on their side.

There have been a few straws in the wind in recent months. The environmental lobby, long the major rallying point of nuclear opponents, has been weakened somewhat by the growing awareness that coal must be mined, refineries built,

The reactor: British interest: Previous accidents

Three Mile Island 2 is a newly-completed 890 MW pressurised water reactor (PWR) built by the U.S. company Babcock and Wilcox. It was still being commissioned when the accident happened. Its owners, Metropolitan Edison, have operated a slightly smaller (800 MW) reactor of the same kind and make since 1974.

There are more commercial PWRs operating in the world today than all other types of reactor combined. Of a total of 523 commercial reactors operating, under construction or ordered throughout the world, 283 are of this type. It is the reactor used in submarines, including British nuclear submarines. Britain is currently building a PWR in Scotland for the navy to use in democratic and training.

The Babcock and Wilcox reactor is one of four designs—three American, one German—being evaluated by the British Central Electricity Generating Board, with a view to ordering a commercial demonstration plant in Britain in the early 1980s. The aim of this demonstration would be to see whether this type of reactor holds significant advantages for the electricity supply industry over British designs of gas-cooled reactor. The PWR, with its water cooling, is a more compact reactor—hence its use in submarines. But the most obvious advantage for Britain appears to lie in the fact that much more of the PWR can be prefabricated in the factory than is the case with British designs.

The most obvious disadvantage seems to be that, should an accident occur, events happen more swiftly than with the UK designs, which allow hours instead of minutes for crucial decisions to be taken.

A melt-down is the worst kind of accident which can happen to a nuclear reactor. It is the melting of the nuclear fuel when the

cooling liquid or gas fails to remove quickly enough the heat that is generated by nuclear reaction.

Britain has suffered two melt-downs in gas-cooled reactors. The first occurred at Windscale in 1957, when many tons of uranium fuel caught fire and burned furiously for 24 hours. In that case the reactor had no enveloping pressure vessel to help seal in the radioactivity. Radioactive vapours escaped from the plant, but radiation levels did not exceed the maximum permitted by international regulations.

The subsequent inquiry by the Medical Research Council concluded that it was "satisfied that it is in the highest degree unlikely that any harm has been done to the health of anybody, whether a worker in the Windscale plant or a member of the general public."

The second melt-down occurred at the Chapelcross nuclear power station, in a 55 MW reactor. No radiation was released, although the reactor was seriously damaged. Unlike Windscale, the reactor was repaired and operating again a year later. Damage caused by a similar accident in a much bigger gas-cooled reactor in France in 1969 was also repaired.

The most dangerous substance likely to be released in any nuclear accident is radioactive iodine. More than 1,000 times as much was released in the Windscale accident as any other radioactive substance. A serious accident at a British nuclear plant would swiftly bring policemen to the doorsteps of those using pills of an iodine compound. By taking these pills, people would saturate their bodies with iodine and reduce the risk of their absorbing any radioactive iodine from the air.

"the realm of witchcraft." This was borne out by a recent finding by the Roper Organisation, a public opinion research company, that 49 per cent of the population did not understand what nuclear power was all about. Given that people are reluctant to confess to ignorance, that result is held to under-represent the extent of existing ignorance.

But if the public is confused, the likely effect of Three Mile Island is clearer on Congress, in whose hands the future of nuclear power probably lies. Senator Jackson and his energy committee had been witting towards greater acceptance of the need for nuclear energy. In fact the debate among its members assumed that nuclear power would go ahead and concentrated more on details such as how spent fuel should be transported and whether fast breeders should be cooled by gas or sodium.

Doubts on new initiative

However, judging by the immediate reaction of Congressmen to the accident, any pro-nuclear initiative now must be under a cloud. There has been a succession of calls from Capitol Hill for closer monitoring and control of the nuclear power industry and suggestions that the burden of future energy development must be shifted from nuclear power to coal.

The Chairman of the Senate sub-committee on nuclear regulation, Mr. Gary Hart, who visited the stricken reactor with his staff last week, said he would introduce legislation requiring the federal Government to monitor reactors, and assume full control immediately in the event of a crisis.

At Three Mile Island, the Pennsylvania State authorities, the plant management, and the Nuclear Regulatory Commission, a federal agency, have all been involved, at times cutting across each other.

Representative Morris Udall has called his House Energy and Environmental sub-committee into session to take testimony from the nuclear regulatory commission—whose own role is bound to come under scrutiny because of the crisis.

Mr. Carter, who has been an enthusiastic supporter of nuclear power, may elaborate his own position on the subject in his energy statement this week. So far, he has only said that the accident points to the need to review safety standards, a procedure which itself could take years.

It therefore seems the unless the Three Mile Island emergency can be resolved quickly—which seems unlikely—and safely, this cause of nuclear power will have been set back by very many years—with possible grave consequences to U.S. energy policy for the rest of the century.

MEN AND MATTERS

The timing of a political novel

There is a grimly prophetic quality about The Ballot, a novel due to be published on April 30, three days before the general election. Written by Rowland Summerscales, a retired Lobby correspondent, it describes a power struggle inside the Labour Party after that Parliament has been dissolved and an election campaign is imminent. So the timing by the publisher, Robert Hale, is in itself remarkable enough. But one of the central incidents in the story is a political assassination by the Provisional IRA, by means of a car bomb.

I spoke yesterday to Summerscales, who was in the Westminster press corps for more than a quarter of a century. He is now 66. "The death of Airey Neave shocked me very much," he said. "But it did not surprise me. I have always regarded it as obvious that the IRA would sooner or later try to kill a leading politician."

Summerscales finished off the first draft of his novel 18 months ago. Although he has written four previous political thrillers under a pseudonym, it is 10 years since his last book appeared.

Big bounce

Within a few years, company executives in far-flung offices will be talking to one another by private TV links. At least, that is the forecast of Sid Topol, who is in the business of providing "earth stations"—giving access to satellite broadcasting—at costs he claims even individuals can now afford.

Topol has just been in London, briefing investors in Scientific-Atlanta, of which he is president. The corporation, which has passed the \$100m annual turnover mark, was started by six professors from Georgia Tech with 100 dollars apiece.

When radar physicist Topol

and power generated if the country is to keep going. How vulnerable the U.S. is to the vagaries of foreign oil suppliers was demonstrated by the recent shutting off of Iranian oil. In Congress, there had been moves to clear the way for more nuclear power in the form of Bills to speed up licensing and proposals to approve reactor designs on a standard rather than plant-by-plant basis.

All these shifts had yet to combine into a major pro-nuclear movement. But senior officials at the Department of Energy were saying at the beginning of March that they felt that anti-nuclear sentiment had lost some of its edge, and that the moment might soon be ripe for a major policy statement in favour of nuclear power.

At the moment, the U.S. has just over 70 nuclear power stations generating 13 per cent of its electricity and saving it 1.6m barrels of oil imports daily, worth at today's prices about \$1bn a year. However, the dependence of the U.S. on foreign oil is growing yearly, despite the start-up of Alaskan production. Unless domestic fuel sources are developed quickly, the country could be importing well over half of its total oil needs by the next decade.

With the prospects for domestic oil and gas production uncertain because of the high cost of exploration and the near

exhaustion of many available fields, the burden will have to be borne by other fuels. Only coal and uranium offer any long-term prospects. Uranium has the advantage over coal that it is easier to mine and produce electricity more cheaply. On a cost scale where uranium is 15, coal is 20, and oil 40.

The nuclear engineering industry believes it could install enough nuclear power capacity by the end of this century to save about 15m barrels of oil a day, equivalent nearly to total nuclear power consumption. Given the go-ahead now, it says it would be able to produce the new generation of fast "breeder" reactors on a commercial basis early in the 21st century.

No nuclear deaths

However, the environmental lobby combined with uneconomic circumstances had all but stalled nuclear power development by the end of last year. Since 1974, nearly 200 orders for nuclear power stations had been cancelled or postponed. Last year only two new orders were announced. Currently 123 power stations are under construction or otherwise in the pipeline. They will be completed by the mid-1980s. But orders will have to be placed very soon, the industry argues if the momentum is to be maintained. Not surprisingly the industry is concerned with the threat of recession and unemployment once the orders on its books are completed and it has been mounting a powerful lobby in favour of more nuclear power.

However, the fate of nuclear power has always hinged on the question of safety. That is why the Three Mile Island incident will be so damaging, even though the only victims so far are four workers who have been treated for mild exposure to radiation. But the question has become so tangled in the heat of debate that few can view it unemotionally.



"Ever since Edge Hill, I keep getting calls from MPs in every sort of marginal."

Withy workers

Volunteers stepped in at the weekend to help preserve Britain's ancient craft of basket-making. It has lately been brought almost to a halt by a lack of the basic materials; so the volunteers went to cut withies—as the branches are called—at Saxilby in Lincolnshire. The owner of the willow holt, or copse, is Charles Leggett, a basket-maker all his life. But he is now too old to do the work.

Mrs. Catherine Wilson, keeper of the Museum of Lincolnshire Life, led the volunteers. She says: "The skill of growing willow for basket-making is fast dying out. The holt had not been cut for three or four years."

The willow will be distributed to basket-makers who cannot at present get supplies.

Lost touch

The following announcement recently appeared in a Colorado newspaper: "Owing to unforeseen circumstances our daily horoscopes has been suspended."

Observer

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South Korea

South Korea's economic growth during the past decade has been spectacular, particularly since a high proportion of GNP still has to be spent on defence. The country's first "industrial revolution"—based on cheap labour—is now coming to a close, and the economy is moving towards a greater emphasis on heavy industry. Meanwhile the authoritarian system of government continues to be a source of controversy inside and outside the country.

The race goes on

By Charles Smith, Far-East Editor

THE LATE President Sukarno of Indonesia once described the last year in which his shaky regime held power in Jakarta as "the Year of Living Dangerously". For South Korea, practically every year since the postwar partition of the Korean Peninsula has been a year of living dangerously, but the experience seems to have been invigorating.

South Korea lives in the shadow of one of the largest concentrations of military power on earth, quite a large portion of which consists of its own highly trained and heavily armed forces but has still managed to build one of the most dynamic peacetime economies to be found anywhere in the world. In the years since the 1973 oil crisis (when most other nations suffered drastic recessions, or at least breaks, in their rate of economic growth) Korea's GNP continued to forge ahead (at the cost, admittedly, of very nearly being forced to

default on debts to the outside world in the early part of 1975).

Today's Korea appears, on most counts, as one of the most impressive examples to be found anywhere of what is coming to be known as a "new industrial economy"—in other words a nation which has moved from undeveloped to almost developed status in the very recent past and which seems destined soon to challenge the fully developed nations. The average Korean citizen of 1978 was approximately 18 times better off than his 1960 forbear (in current prices) and can expect (if long-term Government projections turn out to be anywhere near accurate) to be four times richer again by the early 1990s.

It all seems too good to be true to western onlookers who have become accustomed to agonisingly slow growth rates and to the apparently insoluble problems of transforming outdated industrial structures. Yet Korea's high growth rate has brought its own problems, and some of them seem recently to have become fairly acute. It may not be too much to suggest that after a decade in which the GNP has seldom expanded by less than 10 per cent per year, the nation has now reached a major economic turning point.

A turning point can mean different things to different people: to the bureaucrats in the prices department of the Economic Planning Board (a body which still exercises supreme control over most aspects of the Korean economy) it means that the time has finally come to do something about the runaway inflation

which began to afflict Korea in the second half of the last year, after years of uninterrupted expansion. Prices went up, officially, by 14.4 per cent during 1978, but the real increase is put at between 20 and 25 per cent, and the Government cost of living index registered another four per cent increase in the first two months of 1978.

Crossroads

Tackling the inflation problem has meant not only using the Government's sweeping price control powers to the full (as is currently being done) but deliberately reducing the economy's growth rate through the imposition of tight money. (The target is 9.5 per cent for 1978, but some observers think the economy may continue to gallop ahead at a faster pace however strongly the government applies the brakes.) Dealing with inflation also means imposing severe controls on the amount of foreign exchange that Korean exporters may bring into the country (because too much foreign exchange might produce a dangerous impact on the domestic money circulation).

If one section of the Government sees Korea at a turning point in terms of domestic economic policy, another focuses mainly on the crossroads that the country seems to have reached in foreign trade. Korean exports grew by 40 per cent per year from 1962 (when they were a spectacularly low \$35m) to the late 1970s when they surged past the \$10bn mark. Exports consisted (and continue to consist) largely of simple manufactured goods,

with textiles providing a foundation and the electronics industry (and to lesser extent the newer heavy industries such as shipbuilding and machinery) providing the "cream". They now seem to have reached the point, however, where resistance from Korea's main overseas customers (the U.S., Europe and Japan in order of purchasing importance), calls for some fundamental rethinking.

The Ministry of Commerce and Industry, which has the unenviable task of seeing that export targets are met, admits that the amount of ingenuity required to do this is a good deal greater today than it was a few years ago. What is going to be needed in future is not just ingenuity but a fairly radical change in the make-up of Korean exports, with the emphasis shifting from "vulnerable" sectors like textiles to the heavy and more sophisticated products where Korea thinks barriers in world trade markets may continue to be less formidable.

The switch from light industry to heavy industry and from labour-intensive to technology-intensive products makes sense from another point of view as well. Korean labour, once possibly the cheapest to be found in any Asian country where industrialisation was seriously under way, is no longer particularly cheap by regional standards—a fact which is hardly surprising after several years of consecutive 25 per cent wage increases.

Korea's cost effectiveness according to Government sources is now less than that of Taiwan, its principal rival in

basic export industries. The solution to this problem is to upgrade the productivity of labour by switching into more sophisticated sectors: the question which concerns everyone either directly or indirectly with Korea's economic future is asking: how quickly and easily can this be done?

If the switch is made easily and quickly, which Korean officials claim is possible but which some sceptical outside observers (such as foreign bankers) obviously doubt, attention will shift to one other major problem which could (but it is hoped will not) block long-term economic growth prospects. Korea, like Japan, is a resource-poor country, with almost nothing to boast of in the way of domestic mineral deposits, apart from rapidly depleting supplies of low quality coal.

Competing

To keep up with the 10 per cent rate of growth envisaged for the economy up to 1990 (which in turn is claimed to be necessitated by a 3 per cent annual growth of the labour force, Korea will have to take its place as one of the world's large importers of raw materials, competing with though naturally not equalling, the requirements of Japan and other top industrial countries. To acquire such raw materials may be possible but it will require more careful planning than Korea has put in up to now.

In tackling the new series of problems which seem likely to face it during the first half of the 1980s Korea will have to take account of one major

domestic factor. The economy has become more complex after years of rapid expansion and can no longer be managed by a small group of highly skilled and dedicated government planners, as was the case during the first decade and a half or so of industrialisation.

Korea's future will lie more in the hands of the newly emerging big business groups (with names like Hyundai, Daewoo and Samsung) than with the Economic Planning Board during the next five to ten years of economic development. It will, however, be in the hands of very much the same types of people as before: in other words successful management of the economy will depend on clever, highly educated young executives who will from now be working mainly within the private sector and to a lesser extent for the Government.

What no one seriously doubts, as the country contemplates the various options ahead of it today, is that Korea must continue to grow, and must eventually challenge advanced western countries (including Japan) in some of their current economic "strongholds". The rationale for Korean growth is so simple that it is sometimes not believed, but it makes sense to everyone who has spent long enough in Seoul to appreciate the intensity of the South's struggle for power and influence versus the North.

South Korea is engaged in a race to best North Korea in terms of economic potential (and ultimately also in terms of military capacity) in preparation for the no doubt far off day when the current freeze on North-South relations ends and the two halves of the country

begin to consider the terms on which reunification might ultimately occur. The race was a more desperate affair in the early 1960s, when the South was predominantly agricultural and the North was already highly industrialised. It is still seen, however, as a matter of life or death—at least by the men who control the economy and make the decisions that count.

Whether the northern challenge also means that Korea has to continue to operate its current highly authoritarian system of government is a more controversial question, and one on which a fairly deep (if publicly suppressed) cleavage of opinion exists within the country. Supporters of the "Korean style of democracy" upheld by President Park Chung Hee (including quite a few politicians who technically belong on the opposite side of the National Assembly) claim that Korea cannot afford political turmoil while the North stands ready to "meddle" in the affairs of the South. It is also said that western-style democracy is not necessarily wholly suited to a society with strong Confucian traditions.

President Park's critics (who are to be found, most vocally among the university intelligentsia and in Korea's large Christian community) say that, while all this may be true, the effect of the system has been to satisfy the taste of a particular set of men for staying in power. The arguments in favour of more or less democracy in Korea will no doubt continue in rage (and to be reflected outside the country in debates on such questions as whether or

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not the United States should maintain a military presence on the peninsula). What they seem unlikely to do is to change the actual political climate of the country—at least for as long as President Park and his colleagues remain in power. At 61, and with 18 years of Government behind him, Mr. Park is not exactly a newcomer, but he is probably also a good many years away from retirement. Only after his withdrawal from the scene (and perhaps after similar changes in the Northern leadership) is there any real likelihood that Korea will become a different place from the hard-driving, highly disciplined and dynamic society that it is today.

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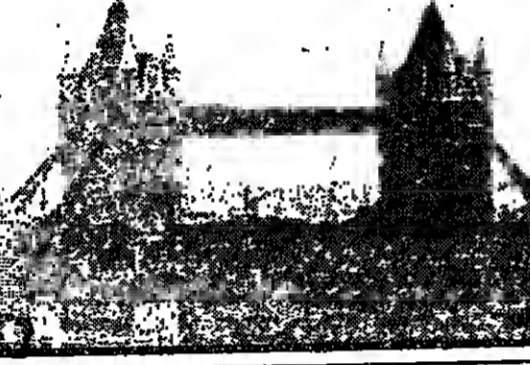
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SOUTH KOREA II

Politics

Uneasy democracy

SOUTH KOREA'S political system has evolved from democratic instability in the early 1960s to what President Park Chung Hee calls "Korean-style" democracy. In the process individual freedoms have been whittled down and the Government's hold on power has been gradually but steadily strengthened.

The system has come in for widespread criticism in the U.S. where the fact that U.S. troops are stationed in South Korea to protect a "free" political system makes President Park's authoritarian style of government an obvious target.

At home, the Government has been able to make a good case for the view that a firm hand is needed to produce economic growth and ward off the northern menace.

So, the legitimacy of Korea's claim to be a fully democratic society remains a sensitive issue. The electoral system is one area in which South Korea departs considerably from Western democratic models. The main legislative body is the National Assembly, two-thirds of whose members are elected by popular vote at six-yearly intervals.

The remaining third of Assembly members, however (the so-called Yujeong-hoe or political fraternity for the revitalising reform), are nominated by the President of the republic and then "elected" by a non-political electoral college whose membership requirements ensure a total non-involvement in politics.

The same body, known as the National Conference for Unification, also elects the president, who holds office for six years. One individual can be elected to an indefinite number of presidential terms and President Park Chung Hee (who originally took power in a 1961 military coup) has just been elected to his fourth term of office.

Criticism

Another instance of diminished democratic freedoms is the fact that human rights, while theoretically guaranteed, are in practice in a state of suspense. This is because of the so-called Emergency Measure Number Nine introduced in 1975 which forbids criticism of the country's existing constitution (the so-called Yushio, or revitalising reform, constitution which was introduced by referendum in 1972 and which instituted the indirect system of presidential election).

Those who violate Emergency Measure Number Nine can be arrested without warrant, as can violators of the older anti-communist law which forbids any form of pro-communist or "fellow travelling" activity within a fairly wide range of definitions.

The government does not publish figures for the number of political detainees under these regulations but it is estimated that about 200 people are in detention, leaving aside "short-term" detainees who may be called in for a few hours of questioning. Political prisoners are not known to be subjected to torture today, although physical mistreatment of prisoners may have occurred in the past.

Press censorship in South Korea operates through an informal system of "self-censorship" by newspaper editors, except in the case of a handful of dissident publica-



Map of South Korea showing major cities and geographical features.

ions which are subject to direct screening by censors. Its effect is to ensure that newspaper editors echo the official line fairly closely on political or foreign policy issues and to mute criticism of some of the more controversial aspects of the government's economic policy.

A final respect in which South Korea's democracy differs from most Western democratic systems is in the absence of the elected local government. The only popular elections held in the country are on a national level, for the two-thirds of the Assembly seats which are not filled by presidential nomination. A partial substitute for elected local government is to

PARTY STRENGTHS IN THE NATIONAL ASSEMBLY

Party	Number of seats won 1978	Percentage of total vote 1978	Number of seats won 1972	Percentage of total vote 1972
Democratic Republican Party	71	31.7	65	33.3
New Democratic Party	61	32.8	52	32.7
Democratic Unification Party	3	7.4	3	10.3
Independents	22	28.1	18	18.7
Yujeong-hoe	77	-	73	-
Total	231	-	219	-

be found in the Saemaul Undong (New Community) movement whose leaders are chosen by "consensus" at village (or factory) level. The fundamental justification offered by the government for withholding full democratic freedoms is that Western-style democratic forms are not "appropriate" for a country which has different traditions and is at a different stage of development from the West.

A second point made by defenders of the system is that South Korea cannot afford "political turmoil" while it continues to face a hostile North Korea apparently dedicated to reunification of the country by force. The institution of an apparently permanent government majority into the national assembly (based on the one-third of the seats filled by presidential nomination plus those held by the pro-government Democratic Republican Party) is claimed to have made pos-

sible the pursuit of a "rational" economic policy which places national interests above regional interests. Regional interests are claimed to have interfered seriously with economic policy-making before the institution of the nomination system in 1973.

The main argument against President Park's "Korean-style" democracy is that the system seems to have served to perpetuate rule by the same individuals—or individual, given that the president himself apparently exercises direct personal influence over a wide range of government decisions. The government's monopoly of contacts with North Korea is another controversial result

Criticism of the present system comes, most vocally, from the so-called dissidents who have made a point of attacking the Yushio constitution (despite the ban on criticism incorporated in Emergency Measure Number Nine) and who have sometimes been arrested for their pains.

The dissident leaders include former presidential candidates Mr. Kim Dae Jung (who provided a strong challenge to President Park in the last direct presidential election in 1977) and who was released from "hospital detention" just before the end of 1978). "Rank and file" dissidents are to be found in the Korean Christian community and among teachers and students—but many of the latter apparently graduate in become dedicated employees of the business establishment which provides the main private level support for the Park regime.

Parliamentary opposition to the Park government is provided by the New Democratic Party (and by the much smaller National Unification Party). The NDP under its "middle of the road" leader Mr. Lee Chul Seung, says Korea has to maintain a "balance" between national security and individual liberty and has confined its criticisms of the government's emergency regulations to debates within the National Assembly.

A more vocal wing of the NDP, led by Dr. Kim Young Sam, the party's former chairman, has attempted to stir up public opposition to the emergency rules and to South Korea's general failure to "measure up to the standards" of Western democracy. Dr. Kim claims to have had an enthusiastic response from the half million South Korean residents of the United States but has found his political activities inside South Korea handicapped by indirect government action.

The views of ordinary people about the present political system remain something of a mystery. The fact that the NDP secured a marginally larger vote than the pro-government Democratic Republic Party in last December's elections to the National Assembly presumably should be read as a mild criticism of the regime—though it would appear that voters were protesting more against price rises and a recently introduced value added tax than against the Government's stand on the basic issue of democracy versus stability.

A second feature of the 1978 election result which may possibly have disturbed the Government more than the NDP's success, was the participation of very large number of independent candidates (425 as against 161 candidates of officially registered parties) and a sharp increase in the independent share of the total vote.

South Korea's electoral law are rigged against independent candidates, who have to pay higher deposits than registered party candidates and have less freedom to campaign. The fact that so many people chose nevertheless to stand in the election, and that so many voters went to the polls (more than 90 per cent of the electorate) suggests that South Koreans have, not lost their taste for democracy, no matter how much the Government would prefer them to opt for stability.

Charles Smith

North-South relations

Major differences remain

THE KOREAN peninsula is one of the few places in the world where relations between a Communist and a non-Communist Government continue to be conducted in a style reminiscent of the 1950s. The Government of President Park Chung Hee in the South has no relations, either official or unofficial, with that of President Kim Il Sung in the North. Movement across the Military Demarcation Line, which divides the two halves of the country is forbidden and there is no telephone link or exchange of mail.

The concentration of military power along either side of the Demarcation Line (or to be exact to the north and south of the four kilometre wide Demilitarised Zone) is one of the heaviest in the world, involving over 1m men and more than 1,000 fighter aircraft (to say nothing of American nuclear warheads). Almost the only concession that North and South have made to the changing mood of the 1970s is to withdraw a ban on the adoption of a "two Koreas" policy by the outside world. South Korea currently has diplomatic relations with 105 governments while the score for North Korea (according to southern sources) is 93. These figures imply a considerable overlap—in other words there is no problem today for a country which wishes to maintain embassies in both Pyong-

nam and Seoul (provided it does not happen to be a major ally of either the South or the North). Opinions differ about the likelihood of a military flare-up along the Demarcation Line, with the South claiming that such a thing could quite easily happen (the tunnels dug by North Korea, under the DMZ are cited as evidence of the North's "aggressive intentions") and the North declaring that war is unlikely. What no one appears to disagree about is that the odds against a peaceful reunification of the country are enormous—at least while the present leaderships remain in power.

The Northern formula for reunification, establishment of a confederation which would seek joint membership of the United Nations while the existing authorities continued to run things in their own way on either side of the frontier, is favoured by the South which favours a step-by-step approach starting with exchanges of mail and the reuniting of divided families.

Because the differences are so wide, and because neither President Park nor President Kim seem to be the kind of men who would willingly step aside in the interests of reunification, the occasional negotiating sessions that have been held between the two sides are apt to be dismissed by outsiders as meaningless

rituals, indicating, at best, that one side or the other is trying to gain a few propaganda points that might improve its image in the outside world. This interpretation may be correct, but it overlooks the fact that meetings of any kind between North and South are sufficiently rare to deserve attention—and to justify speculation on what might have prompted the two sides to start talking.

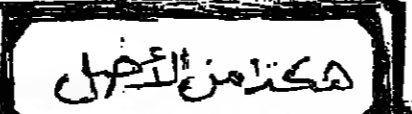
The most prolonged, and promising, series of contacts to have taken place between Pyongyang and Seoul since the Korean armistice were held in 1972 and 1973 when a series of secret high level contacts between the two governments led to the establishment of a semi-official South-North Co-ordinating committee (whose meetings ran for about a year before being unilaterally boycotted by the North). The next occasion when the two sides showed interest in talking to each other was in January this year, when President Park announced his Government's willingness to meet the North "at any time, and place and at any level," and North Korea responded with an elaborate set of proposals for the reduction of tensions and eventual reunification of the country.

The Pyongyang blueprint, which was discussed at series of abortive meetings between the

two sides in February and March, proposed the suspension of propaganda broadcasts by both sides, the termination of "hostile military movements" on either side of the Demilitarised Zone, and the convening in October of a "grand national congress" in Pyongyang at which decisions would, it was hoped, be taken on the North Korean plan for the formation of a confederation.

Although South Korea fielded a team to discuss the Northern proposals (and to put its own counter-proposals), its spokesmen have dismissed the North Korean move as "fake" peace offers, partly because it repeats old proposals that had already been dismissed by the South (the confederation idea, for example), and partly because of the obviously tactical nature of some of the other elements in the Northern package. The proposal to suspend hostile military movements on either side of the DMZ at the beginning of March seemed to be quite clearly designed to open a spawner in the works of "Operation Team Spirit" (a joint U.S.-South Korean military exercise which was due to start that month (and which in fact took place, despite Northern protests). The suspension of propaganda broadcasts proposed by Pyongyang referred to Government radio, but not

CONTINUED ON NEXT PAGE



The economy

A change of direction

SOUTH KOREA may not quite deserve to be ranked as the most remarkable economic success story of the 1970s—that distinction probably should go to Taiwan which has achieved almost as much growth with a good deal less inflation during the difficult years since the 1973 oil crisis. But South Korea certainly outclasses virtually every other country in the world because of its sustained record of high economic growth and spectacularly increasing exports.

Korea's GNP was worth just over \$20 billion in 1961, the year when Major-General (now President) Park Chung Hee seized power in Seoul in a bloodless military coup. At the end of this year GNP should be worth \$56 billion. Exports were \$500 million in 1978 but \$1.2 billion in 1979 and are scheduled to reach \$1.5 billion in 1979. Per capita GNP, which was a mere \$82 when General Park marched into Seoul, will be \$1,500 by the end of this year, putting Korea just ahead of some of the poorer countries in the "rich man's club" of the OECD.

The simplest and best explanation for Korea's economic achievement is that growth was, and is, a matter of survival. For the past 25 years South Korea has been "racing" its neighbour North Korea to establish a strong economic and political system, with the alternative to failure the probability of eventual unification of the Korean peninsula on Pyongyang's terms.

Differences

Continued from previous page

...entirely left out of account—a South Korean liberation station which, apparently, operates from just north of the military demarcation line, though purporting to be located in the south.

A broader interpretation of the motives for the northern peace move which is circulating in Seoul suggests that various international events (and one major one against the North) might have prompted Pyongyang to start talking. According to this theory North Korea could be seeking to forestall pressure from China for the normalisation of North-South relations, assuming, as most people do, that China was urged to use its good offices in this direction when Vice Premier Teng Hsiao-ting made his recent trip to Washington.

Another North Korean objective could be to reassure the American public of its peaceful intentions towards South Korea at a time when the future of President Carter's plan for the withdrawal of U.S. troops from the South seems very much in the balance. Finally, and most intriguingly, there is speculation that the North might have been trying to send thoughts about its traditional policy of relying on the maintenance of decisive military superiority over the South to bring about ultimate reunification.

The point being made here is not that North Korea does not wish to maintain military superiority, but that it may be reaching a point in its economic development where such a policy is no longer viable. North Korea (according to South Korean intelligence sources, which may not necessarily be correct) spends between 20 and 25 per cent of its GNP on defence, whereas the South claims to spend around 6 per cent. However, the South's GNP has been growing considerably faster than that of the North and is now possibly five times as large (about \$48 billion in 1978 compared with the (very roughly) estimated northern figure of \$9 billion). This would appear to mean that the absolute level of defence expenditure (as opposed to the ratio of defence to GNP) may now be roughly the same in both halves of Korea, with the South tending to catch up on (and overtake) Northern defence spending.

halt: with the labour force growing at over three per cent per year South Korea will need to continue to "deliver" a high growth rate for many years just to provide jobs and opportunities for those who will need them. What does appear to be true is that after a decade of rapid conversion from an agriculture-based to a light industry-based economy South Korea has now reached a turning point in its economic development.

Superficially, all that might appear to be implied by this is that South Korea is adjusting to a slightly less hectic rate of growth after three years of ultra-rapid expansion. GNP growth averaged a real annual rate of 12.4 per cent during the three years up to the end of 1978, almost certainly the highest rate for the period achieved by any country in the world of comparable size (although Taiwan just edged out S. Korea in the economic growth stakes for 1978 alone). The Fourth Five Year Plan, which runs from 1977 to 1981, calls for an average growth rate of 9.2 per cent throughout the plan period (actually it envisaged a 10 per cent growth in 1977 followed by 9 per cent in each of the following four years).

In relation to the Government blueprint S. Korea has thus reached a point by the end of 1978 where it could well afford to cut back its growth rate to more "moderate" levels. The current year's growth target is 9.5 per cent and will be achieved (or possibly over-achieved), not by stimulating the economy, but by fairly severe sets of deflationary policies including the imposition of a tight money policy (in force since the second half of 1978) and a balanced budget.

In deciding to put on the brakes in late 1978, South Korea's economic planners were not simply attempting to bring

the economy's growth performance into line with the planned targets. There were also, and still are, signs that years of high speed growth had begun seriously to overheat the economy. The official cost of living index showed a 14.4 per cent rise during calendar year 1978, but the real increase in living costs is thought to have been considerably higher, perhaps as much as 20 to 25 per cent.

The immediate cause of this rather worrying bout of inflation is thought to have been the massive increase in money supply which occurred in 1977 when Korea's unexpected success in winning Middle East construction contracts brought a flood of foreign exchange into the country. The money supply rose by 40 per cent in 1977 and was still increasing at an annual rate of 25 per cent last year (or 34.5 per cent in the case of M2). This occurred despite a series of Government curbs, including a freeze on the repatriation of roughly 80 per cent of foreign exchange earned by construction companies, and a deliberately engineered "deficit on the current account of the balance of payments."

The Government hopes to hold this year's increase in consumer prices to between 11 and 12 per cent and to keep the rate of increase in money supply down to a "steady" 21 per cent for both M1 and M2. It

has powers to place direct restraints on the ex-factory price of 96 key items produced by major local manufacturers, but was obliged to allow many of these to be adjusted upwards during the first two months of 1978 in order to "catch up" with runaway increase in retail prices that occurred in late 1977.

The aim is to keep the prices of such items steady at their new levels during most of the remainder of 1978 but this could turn out harder to achieve than the Government appears to believe. Higher prices for imported crude oil (which supplies 55 per cent of energy needs) still have to be reflected in the general price structure and are expected to add at least 2 per cent to the wholesale price index during the remainder of the year. Another problem that could prove harder to handle than the Government seems to expect involves the stabilisation of Korea's rapidly rising farm prices.

The Economic Planning Board says the Government has deliberately kept farm prices high in the past few years (in order to prevent too rapid a movement of the rural population into the cities). It also admits that a policy of going all-out for self-sufficiency in rice (now successfully achieved) has tended to produce shortages of other types of food including wheat and vegetables.

Prices of some vegetables rocketed by as much as 50 per

cent during 1978, giving the public what the Government claims was an exaggerated impression of the overall inflationary problem. To deal with the food price problem the Government plans gradually to phase out its policy of preferential treatment for farmers, but it acknowledges that this may take time.

A third major symptom of overheating has been a sharp change in conditions on the labour market. Korea regarded itself as a country with a chronic excess of labour until two or three years ago and planning officials today continue to talk of the need to maximise GNP growth rates in order to absorb a continuing increase in the labour force. In the short term, however, there seems to be no question that Korean employers face a seller's market for labour.

Wages have been going up by around 25 per cent per year for the past three years, with particularly sharp increases in rates for skilled or managerial workers. The Government has been encouraging small companies to increase the wages of their lowest paid workers so as to avoid a (politically dangerous) increase in differentials between high and low paid sectors of the community. It is also, as a matter of urgency, taking steps to increase enrolment of students in higher education, so as to increase skilled manpower supplies.

Labour shortages in some areas, however, are clearly not going to disappear overnight, even though Korea still has what most observers would regard as a large reservoir of workers in its overpopulated agricultural sector (36 per cent of the total labour force at the last count).

if the Government manages to solve the overheating problems—and there is no reason, given time, to doubt that the problems will be solved—the prospects for the Korean economy will become very much a matter of what happens in the outside world. Growth could be stunted during the next five years or so by a drastic increase in the number of import barriers erected in Europe, Japan and the U.S., or just conceivably by global shortages of the imported fuels and raw materials on which the economy is dependent.

The Government's recipe for avoiding these dangers is to bring about a shift in the structure of industry from lighter and more labour-intensive sectors into capital-intensive or skill-intensive sectors. By doing this it hopes to diversify Korea's exports out of the areas (such as textiles and electronics) in which protectionism is a major problem. The shift towards high technology industries would also increase the amount of value-added in Korea's manufactured exports and thus in the long run make the economy less dependent on imported raw materials and

Supervised

Hitherto Korea has had one of the "Free World's" most tightly supervised economies, with the Government initiating almost every major investment by the private sector and wielding enough power to ensure that companies which make such investments also make a profit. The EPB expects to have to abandon this type of planning in the next phase of the country's development in favour of a more general approach based on resource allocation and the setting of broad targets for the development of major sectors. It will have to relax its grip on the planning process for to abandon this type of planning the Korean economy will be far too complex by the early eighties to respond effectively to centralised control by a handful of

bureaucrats.

The EPB's general air of confidence could mask a few doubts about the future. Not everyone agrees that Korea will make the transition to high technology industries as easily and rapidly as it switched from an agriculture-based to a light industry-based economy between 1965 and 1975. "The Koreans think they can start turning out turbo-generators to six years. Our experts think it might take 25 years" is how a diplomat at the Seoul Embassy of one of Korea's major Western trading partners expressed these doubts recently. There are also a variety of views on the seriousness of the protectionist threat to Korea's exports, which constitute a vital 33 per cent of GNP.

Korea does not pretend to be unconcerned about protectionism. But the planners who opted for high growth and rapidly growing exports at the risk of becoming over-dependent on world trade could still turn out to have had sounder instincts than advocates of a more cautious strategy. Other countries besides Korea have been making a dash for growth in the past few years on the assumption (which could well prove to be correct) that export-led expansion policies will prove harder to pursue in the eighties than in the seventies. Whatever happens, Korea is unlikely to have any reason to regret that it joined the race.

Charles Smith

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THE GRASS IS GREENER AT SAMSUNG.

C.S.

SOUTH KOREA IV

U.S. relations

Tensions have eased

"I THINK 1977-78 was as difficult a period between treaty allies as could be imagined." The speaker was Mr. Richard Holbrooke, U.S. Assistant Secretary of State for East Asian and Pacific Affairs, giving his estimation during a visit to Seoul on March 17 of the state of U.S.-Korean relations. Mr. Holbrooke went on: "We had a culmination of stresses and crises which could have torn the treaty alliance apart... I refer to the so-called 'Koreagate' problem, to the congressional scandals, to grave misunderstandings and concerns—which we felt were exaggerated but nonetheless were real—over the troop withdrawal policy and to the question of human beings' individual freedom and dignity."

The later part of 1978 showed a significant improvement in these areas... we view 1979 as a year for strengthening the relationship.

"We assess the U.S.-Korean relationship as having been on an ascending curve over the last few months... now things that do go up can go down and I don't want to leave the impression that I am predicting a smooth course or a trouble-free future because that clearly is very difficult in a situation that is as fundamentally complex as this one. But basically things have gotten much better and we believe we have weathered the crisis."

No one could suggest the Assistant Secretary of State was glossing over the extreme tensions that had marked the relationship between Washington and Seoul during the past 2½ years. The tensions were at times extreme, reflecting the very high degree of dependence that South Korea has had on the U.S. for the past 25 years and the sudden realisation—on both sides—that the relationship had changed fundamentally.

Recognition that the tensions have now eased and that the new relationship is being accepted will come later this year with the visit to Seoul by U.S. President Jimmy Carter, following his stay in Japan to take part in the developed nations economic summit meeting in Tokyo in June.

Although the visit will be brief, Mr. Carter and South Korean President Park Chung Hee have a great deal to discuss. The policy adopted by the U.S. Administration as soon as the gradual withdrawal of the 30,000 U.S. ground troops in Korea by the early 1980s has caused intense and continuing anxiety in Korea. There is a firmly held belief among vir-

tually all Koreans that it is only the presence of U.S. ground forces that has prevented North Korea from launching an invasion attempt during the past 10 years.

The bulk of the U.S. forces are deployed in the 25 miles of hilly country that separate Seoul from the demilitarised zone (DMZ) which forms the border between north and south. Because of the nature of the terrain along the DMZ, any invading force would have to pass through the area garrisoned by the Americans, thereby immediately involving the U.S. in military operations alongside the South Koreans.

Despite frequent and public assurances by the U.S. in the past few years that there will be no reduction in U.S. air or naval forces in the Korean region, and despite a US\$ 500m programme to beef up the military hardware of the South Koreans, Seoul remains unconvinced.

criticism the U.S. President is bound to make of South Korea's human rights record. Just how Mr. Carter will raise the issue is uncertain, but it is accepted by both Korean and U.S. officials that the severe restrictions that are applied to freedom of speech and political activity under the Yushin Constitution and emergency decrees drawn up by President Park will be raised by Mr. Carter.

Very few contacts between U.S. and Korean officials take place without human rights issues being mentioned in some form. The Koreans feel the Americans are ill-informed about the concept of civil rights in a society such as Korea, and that what may succeed as a form of government in the U.S. is not applicable to South Korea. However, they realise they cannot simply ignore such a fundamental part of Mr. Carter's foreign policy.

Seoul took a major step at the end of last year to ease this irritant in its relations with Washington by releasing from detention more than 1,000 political prisoners, including former Presidential candidate Kim Dae Jung, who has become a symbol among U.S. liberals of the Korean dissident movement.

Although Mr. Kim has been closely watched since his release he has been able to criticise the Park Government without incurring anything worse than warnings that he is breaching his parole.

Mr. Kim's release was seen in Korea as being the result of continuing U.S. pressure and directed at U.S. opinion which was turning away from Korea in the aftermath of normalisation of U.S. relations with Peking. Mr. Kim himself has played on this and on the coming visit of Mr. Carter to keep up his criticism of Mr. Park, and has asked for the opportunity to meet Mr. Carter when he visits Seoul—a request that is unlikely to be granted.

Whatever Mr. Carter's comments on human rights, they will only represent a continuation of existing pressures, so they are certain to be accepted with good grace.

One area Mr. Carter will not have to worry about is the so-called 'Koreagate' scandal in which rice-dealer Park Tong Sun and former Korean ambassador to Washington Kim Dong Jo were implicated in allegations of bribery of U.S. senators and representatives. Although extensive investigations in the U.S. last year finally established that some illicit payments had been made—and legal machinery is still moving on some cases—the

issue no longer raises the heat it did in 1978 and 1977.

The demand by the U.S. Congress that Mr. Park and Mr. Kim appear before its committees in Washington, brought relations between the U.S. and Korea to a very low level. Seoul initially resisted persistent U.S. pressure before allowing Mr. Park to testify, with personal immunity from prosecution. Mr. Kim Dong Jo never made the trip to Washington, and retaliation of the Congress vetoed \$56m of food aid.

Mr. Carter may face a more testing time when the ambient turns to economic relations in this area, as much as in military affairs, there has been a fundamental change in the relationship.

The rapid economic growth of South Korea in the 1970s has changed the ties with the U.S. from those of dependence to those of balance—although not to the extent that U.S. trade officials would like, as Korea last year recorded a trade surplus with the U.S. of \$1.1bn.

The largest segment of the trade is in textiles and garments, areas which in the U.S. are now subject to intense protectionist lobbying. Although the two countries have a three-year textile trade agreement giving quotas and an amount of growth to the Korean industry, there is continuing effort at tightening controls which the U.S. industry claims are being bypassed.

The Koreans are trying to head off some of this trade friction by purchasing, with accompanying fanfare, considerable quantities of American commodities. Later this year Seoul is sending a big 'buy' mission to the U.S. to sign up suppliers of goods ranging from biscuits to machinery. Whether these deals would have been made anyway is a matter of debate.

However, the U.S. does see new openings for its products in the medium to heavy industrial sector of Korea. Notable among these are aircraft, nuclear power plant and machine tools.

If Mr. Carter's visit to Seoul can reassure the Koreans that there is no wavering in the U.S. military commitment to South Korea, while bringing home the need for the U.S. to maintain a reasonable balance in its trading, U.S.-Korean relations will, indeed, maintain an 'ascending curve' that will help to ease tensions.

Ron Richards

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Hope

Early in March, Prime Minister Choi Kyu Hah told the Americans that "it is our sincere hope that (you) will deal very prudently with the question of future troop withdrawal in view of the rapidly changing international situation and the additional military build up in North Korea so as not to disrupt the military balance on the Korean peninsula."

The Koreans were certainly reassured when a recent assessment by the U.S. of intelligence data showed that the North Korean army had about 178,000 more men and considerably more tanks than had previously been thought. It gave the U.S. pause as well, and the troop withdrawal programme has been "held in abeyance" pending further analysis of the reports.

To some observers this seems the perfect excuse that Mr. Carter needs to drop the withdrawal policy, which has become increasingly unpopular in the U.S. Congress and has never been accepted by the Koreans.

It seems likely that any announcement of the future of the policy will be delayed until Mr. Carter speaks with President Park, and few doubt that the "discovery" of the extra northern divisions will see Mr. Carter's unpopular campaign promise scrapped.

That alone should ensure that U.S.-Korean relations remain on an "ascending curve." It may also be the goodwill gesture Mr. Carter needs to counteract

Links with Japan

Trade friction increases

SOUTH KOREA and Japan are close partners in one sense and bitter rivals in another. Japan's stake in the fast growing Korean economy, through trade and direct investment, is far larger than that of any other nation and Korea is the second largest market for Japanese exports (absorbing goods to the value of 60 per cent of Japan's exports to the whole of the EEC). Add to this the fact that Korea has borrowed from Japan many of the successful development policies pursued over the past decade, and one can see that the two countries have done a good deal to contribute to each other's progress.

The rivalry is a mirror image of the partnership. Korea aspires to displace Japan from its position as undisputed world market leader in industries such as shipbuilding and consumer electronics—or at least to challenge that position with its own cheaper products. There is also a feeling that by beating Japan at its own game, if such a thing becomes possible, Korea will be getting its own back for several centuries of history in which the Japanese have very definitely had the upper hand.

Korea was a Japanese colony for 35 years up to the end of World War II and has not forgotten the severity with which the colonial rulers tried to impose on a reluctant local population their language and culture. Two hundred years before that the Koreans spent years fighting off a series of Japanese invasions which devastated much of their country.

The post-war relationship between Japan and South Korea dates, for all practical purposes, from 1965, when President Park Chung Hee successfully tackled the issue by normalising diplomatic relations with Tokyo. (His predecessors had diked the issue because of a strong popular antipathy against Japan.) From the time of normalisation onwards, Japanese loans and investment began to flow into Korea in rapidly increasing quantities, and Korea quickly became dependent on Japanese supplies of semi-processed industrial materials to feed its textile and other fast growing light industries.

Japan's investments in Korea take the form of joint venture participation in about 340 separate enterprises, ranging from small-scale assembly operations to major petrochemical or heavy industrial

complexes. The Japanese investment in such ventures represents about 60 per cent of the total value of foreign investment in Korean industry and can be classified (in chronological terms) into three separate phases.

Japanese companies first invested in Korea in the late 1960s and early 1970s with the straightforward objective of making use of cheap Korean labour to assemble imported components. From the early 1970s onwards Korea acquired the added attraction of being a manufacturing base from which Japanese companies could export to the United States without encountering the barriers which were being erected against goods directly shipped from Japan.

Today the introduction of direct barriers against Korean imports in the U.S. and Europe has undermined the second of these advantages, while Korean labour is a good deal less cheap than it was. There is still scope, however, for technology-based Japanese investments (i.e. projects where the Japanese partner acquires a stake in a Korean joint venture in return for providing know-how. It also appears that Japanese companies with Korean joint ventures in consumer electronics or other light industry sectors may have started using their Korean affiliates to fill part of the Japanese quotas for such goods in the U.S. or Europe (thereby earning "Japanese prices" for goods produced by Korean labour).

Because of Japan's investment presence and because geographical proximity gives it a strong competitive advantage in terms of freight rates and delivery times, Japanese goods have outpaced competing western products in the Korean market for the past decade. Japan supplied 44.5 per cent of Korea's imports in 1967 and still held a 40 per cent share in 1978, despite a conscious effort by Korea to diversify imports. The bread-and-butter of Japan's sales to Korea consists of the bulk shipments of semi-processed industrial raw materials for the textile industry and of components for the electronics and other light manufacturing industries.

A significant portion of the total appears to be brought in under contract from Japanese-

Korean joint ventures (some of which are obliged by their terms of operation to concentrate production in Japan). The Korean Government now strongly discourages local participants in Japanese joint ventures from committing themselves to Japanese procurement. Despite this, one of the major synthetic fibre joint ventures, whose terms of operation do not oblige it to buy from Japan, still relies on Japanese raw materials for two-thirds of its needs, with the remaining one-third coming from West Germany.

The Japanese investment presence has also produced the converse result of stimulating Korean exports to Japan. Approximately one-third of Korea's exports to Japan in 1978 consisted of textiles, whose value was far ahead of any other country's textile sales in the Japanese market. The bulk of these shipments appears to have come from Japanese-Korean joint ventures established in the early 1970s at a time when high labour costs were undermining the ability of the Japanese textile industry to supply on its own domestic market.

Korean officials are honest enough to admit that their country owes a good deal of its recent economic success (particularly during the early stages of industrialisation) to Japanese investments and to regular supplies of cheap Japanese materials. This does not alter the fact there is profound dissatisfaction about some aspects of the economic relationship with Japan. Frictions centre around the imbalance on bilateral trade, which has grown continuously and rapidly since 1975 and which, last year, was almost double Korea's global trading deficit (\$3.35bn compared with an overall visible trade deficit of \$1.8bn).

Japan's exports to Korea in 1978 grew by 52 per cent despite (or perhaps even because of) the fact that the yen was appreciating rapidly against the dollar during much of the year. There is evidence that Korean importers rushed to buy Japanese goods during the first half of 1978 in order to avoid having to pay the higher prices that were expected to result from revaluation. While Japan was achieving a spectacular increase in its sales to Korea, Korean exports to Japan rose by a much more modest 22 per cent (that is by a slower rate

CONTINUED ON NEXT PAGE

SOUTH KOREA V

Trading companies

مكتبة الشرق

Group system wins more exports

MANY COUNTRIES, including Mexico, Singapore, and reportedly even France, have copied or considered trying to copy the hitherto unique institution of the Japanese general trading company (sogo shosha in Japanese). The only country which seems to have succeeded is South Korea.

South Korea had 13 officially-registered GTCs in 1978 and has 12 today (one dropped out at the beginning of the year after failing to meet the conditions for GTC designation). The group of companies bearing this privileged and exclusive label sold 32 per cent of Korea's exports last year and probably will sell more than 40 per cent in 1979.

This is enough to prove that the GTCs represent a major element in the export-oriented South Korean economy. Whether they are also a helpful and positive element so far as the rest of the economy is concerned is still partly open to question.

South Korea's Ministry of Commerce and Industry, which is responsible for seeing that the country meets its export targets, came up with the idea of creating GTCs in 1973, after concluding that the fast-rising branch networks of Japan's

sogo shosha had a lot to do with the global success of Japanese exports. The requirement for GTC status in the first year was that exports should exceed \$50m and only one company qualified (Samsung Company, the long-established trading arm of the Samsung group). In subsequent years requirements were stepped up considerably as more and more of Korea's leading business groups joined the queue to win GTC status.

The 1979 qualifications include: exports equivalent to at least 2 per cent of the national export figure for 1978 (this works out at about \$284m per company); sales of at least five different items to reach or exceed \$1m-worth per item; an international-branch network of at least 20 offices; and public quotation of the company's shares on the Seoul Stock Exchange.

The 12 GTCs registered by the government this year include two companies which did not, in fact, meet all of these qualifications. One, the semi-official Koryo Trading Company, was given special treatment because it handles small orders for small and medium-sized business enterprises and therefore could not be expected to equal the turnover of competi-

tion dealing in bulk orders. A second company, Hanil Synthetic Fibre, scraped through because it was able to convince the authorities that its indirect exports of artificial fibres (through other South Korean companies) should be added to the figures for its direct exports recorded in the customs statistics.

In return for fulfilling the qualifications set by the government the GTCs receive various privileges. They can become members of any or all of the export associations organised within major South Korean industries (which means they can acquire a larger volume of export intelligence at a lower cost than non-GTCs are able to do). They can select their own "main" banks (unlike ordinary South Korean companies which have their main banks designated for them by the Bank of Korea).

Their overseas branches or subsidiaries may raise foreign currency loans without reference to the strict guidelines which apply to offshore borrowing by the rest of South Korean industry. And they pay lower fees than ordinary companies for the processing of export contracts required by South Korean law.

The list of privileges and immunities granted to GTCs does not provide the full explanation of why the system works and why Korean general trading companies can show a profit, despite the enormous overheads involved in running a big overseas branch network staffed by highly paid executives. All the GTCs (with the exception of Korea Trading Corporation) also happen to be members of large, diversified, industrial groupings. They start out therefore with the advantage of having a "tied" clientele for their overseas marketing activities.

Daewoo, the number one GTC in 1978, belongs to the same family of companies as a top electronics manufacturer, a leading heavy industry enterprise and one of the biggest textile concerns. A similar set of relationships is enjoyed by Samsung Company, Hyundai Corporation and the rest of the 12 GTCs.

On average, South Korean GTCs depend on group members for about 50 per cent of their export turnover while picking up the rest of their business from smaller, unattached clients. GTCs are encouraged by the Government to acquire subsidiaries and, therefore, are

tending to draw within their orbit more and more small and medium-sized concerns which find themselves in need of powerful friends. In a majority of cases GTCs also perform an overall planning and co-ordination function for the groups of which they are members.

The GTC is, therefore, in a very real sense the "core" of the group to which it belongs and the designation of GTC can be said to confer "group status" on the whole family of companies to which the company concerned is related. The central role accorded to the GTC fits in naturally with the emphasis on exports which pervades South Korea's entire economy. It provides a contrast, however, with the situation in Japan where a sogo shosha may, or may not, play a central role in the group to which it is related.

The Ministry of Commerce and Industry, which administers the GTC system, says that the companies concerned enjoy one other important benefit. They are attracting the brightest graduates from top universities, in contrast with the situation of a few years ago when the toughest competition was for jobs in the government.

The drawback of the GTC system, as seen by the companies which have qualified, is that government guidelines are too ambitious and make it too hard to register profits (although all 12 GTCs did, in fact, report profits for the year 1978).

In the view of ordinary South Korean trading concerns which have not managed, or tried, to win GTC status, the system is open to more radical objections. They argue that the creation of GTCs has served merely to concentrate the business of selling Korean exports into fewer hands—not to increase the overall amount of business faster than it would have increased anyway. Concentration of ownership and control could be dangerous, according to the system's critics, although it may appear harmless while the economy, and exports, are growing fast and everyone is becoming rapidly better off.

The Ministry of Commerce and Industry admits that critics of over-concentration could have a point, but says the GTCs have created an "atmosphere" of export promotion

THE GENERAL TRADING COMPANIES			
Company name and date of designation	Number of overseas branches	Exports in \$m	
		1977	1978
Samsung Company, May, 1975	33	390.1	493.4
Daewoo Industrial Company, May, 1975	34	351.8	705.8
Ssangyong Industrial Company, May, 1975	23	117.1	284.5
International Chemical Corporation, Nov. 1975	23	297.4	472.3
Hanil Synthetic Fibre Indust. Company, Dec. '75	20	127.0	188.2
Korea Trading Company, April, 1976	5	23.7	31.3
Hyosung Moolisan, August, 1976	24	152.8	337.8
Bando Trading Company, Nov., 1976	25	198.8	392.6
Sunkong, Nov., 1976	25	176.2	283.4
Sam Wha Company, Dec., 1976	21	167.1	260.6
Kumho Company, Dec., 1976	23	135.0	256.0
Hyundai Corporation, Feb., 1978	30	323.3	259.7
Ynisan Industrial Company, Feb., 1978	31	91.9	169.7
Total	307	2,562.6	4,033.3

Note: Ynisan Industrial Company did not apply for GTC designation in 1979.

GROUP INTERESTS

Company	Interests
Samsung Company:	Textiles, garments, department store, sugar refining, hotels, electronics machinery, shipbuilding, rolling stock, defence, construction (22 companies)
Daewoo Industrial Company:	Heavy industry, construction, electronics, shipping, finance, insurance, leather, textiles (23 companies)
Ssangyong International Chemical Corporation:	Cement, electronics, chemicals, university (11 companies) Footwear, textiles, paper, electronics, construction, shipping, transport, securities (23 companies, approximately 200 subsidiaries)
Hanil Synthetic Fibre:	Synthetic fibres, wool spinning and weaving, petrochemicals (6 companies)
Karya Trading Company:	100 per cent owned by Korea Traders Association, specialises in small orders
Hyosung Moolisan:	Tyres, leather products, tannery, nylon (8 companies)
Bando Trading Company:	Member of Lucky Group, electronics, chemicals, mining construction, petroleum refining, securities (32 companies)
Sunkyang:	Textiles, electronics, machinery, rubber, tourism (12 companies)
Samwha Company:	Footwear, raw silk, silk fabric (25 companies)
Kumho Company:	Tyres, electronics, bus transport, bicycles (12 companies)
Hyundai Corporation:	Construction, automobiles, shipbuilding, heavy industry (17 companies)
Ynisan Industrial Company:	Shipping, aluminium, construction

Friction

CONTINUED FROM PREVIOUS PAGE

Traders' Association before they may open full branches in Korea. The KTA has yet to issue a single approval and appears unlikely to do so, with the result that foreign trading companies are effectively banned from carrying out import or export transactions in their own right on Korean territory. (They may act as "offer agents" for Korean importers but may not buy or sell goods in their own names.)

The reason why the KTA has not permitted the opening of foreign trading company branches is understood to be that it believes the major Japanese trading companies (Mitsui and Mitsubishi, etc.)

would represent formidable competitors for Korea's fledgling general trading companies (GTCs) if given a free hand. Korea probably has much less reason to fear that western trading concerns might take over the handling of its imports and exports.

Restraint

South Korea's banking regulations also serve as a restraint on Japanese business activity, although less drastically so than in the case of trading company branch approvals. The Bank of Korea has allowed four Japanese banks to open full

branches in Seoul, which means that Japanese banks have been given numerically equal treatment with British and French banks, despite the overwhelmingly larger stake of Japan in the Korean economy. The Japanese authorities have restricted Korean banks to the opening of the same number of branches in Tokyo (which means that the Korean banking presence in Japan is much smaller than that of major western European countries).

Korea seems to be aware that its policy of import liberalisation, introduced last year, could work in favour of Japan and against the interests of less

competitive exporters from the West. To minimise the advantage given to Japan the Government appears to have made a point of selecting items in which European industry is strong (eg biscuits) for inclusion in the initial rounds of liberalisation. Ultimately Korea may have to open its market to products in which Japan enjoys a strong global competitive edge (for example cars). The hope is, however, that when that time comes Korean industry will itself have grown strong enough to hold its own against Japanese competition.

C.S.

which has helped the country as a whole.

The Ministry has one other specific concern—to see the GTCs increase their role in the handling of imports. The 12 GTCs handled only 4 per cent of the nation's total imports in 1978 (compared with 32 per cent of its exports) and seem to have faced difficulties in

taking over import business from state corporations (in the case of cotton) or from industry itself (in the case of many other industrial raw materials).

GTCs may well play a leading role in the new phase of overseas resource development which will have to accompany the further growth of South Korean industry. Meanwhile,

successful or otherwise, they are at least free from the worry of foreign competition. A non-South Korean trading company requires approval from the (private sector) Korean Traders' Association to open a full operating branch in Seoul. So far not a single approval has been granted.

C.S.

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Banking

Competition and conformity

SOUTH KOREA'S banking is a curious mixture of competition and guided monopoly. On the one hand five nationwide commercial banks—all partly Government owned—vie with eight Government-owned specialised banks, ten private regional banks and about two dozen foreign banks for chronically-scarce funds.

shoot the Bank of Korea, exercise comprehensive control over both the commercial and specialised banks, leading to a high degree of uniformity in their behaviour. The Bank of Korea is involved in the operations of the commercial banks up to the level of appointing senior officials and even to issuing detailed instructions on the day-to-day functioning of the institutions.

The structure of South Korean banking gives a deceptive impression of diversity. At the top of this structure are the five commercial banks—the Commercial Bank of Korea, the Choheung Bank, Hanil Bank, Korea First Bank and the Bank of Seoul and Trust—which are all effectively state-run.

from which it transferred most of its equity stake to the Korean Traders Association in 1972. All these banks have their head offices in Seoul and operate a network of nationwide branches. With similar historical backgrounds and with strong intervention by the government in their development, the five city banks have been brought to a close uniformity in their organisation. Each is about the same size in terms of capital, deposits and loans outstanding and the number of branch offices.

but it may also set different ratios for different types of deposits. It is perhaps not surprising that a private study of the composition of the lending portfolios of the city banks showed that not only were they almost identical in terms of industries supported, but that changes that had taken place in this breakdown in the past five years were almost the same for all five banks.

ened their ordinary banking business in competition with the commercial banks, and now capture a sizeable volume of ordinary deposits. At least two of the specialised banks—Korea Development Bank and Korea Exchange Bank—compete directly with the city banks in the more profitable areas of their business, notably foreign exchange lending.

With such a limited deposit base, their only access to Won funds is by sale of securities in the market, or by availability of the swap facilities they have with the Bank of Korea for the conversion of foreign currency. As in many countries, the foreign banks have no access to rediscounting facilities with the central bank.

categorised those with total bank borrowings of more than Won 5.0bn and those which were members of a business group which had total group borrowings of more than Won 10bn and which themselves had borrowed more than Won 100m.

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In addition, a strong uniformity prevails in the banks' management. Interest rates are agreed by the Bankers Association, in conformity with maximums set by the Bank of Korea, while dividend payments are also subject to government approval—and are almost uniform.

Reserves

The city banks rely heavily on the rediscounting facilities of the Bank of Korea because of a chronic shortage of domestic savings in South Korea's banking system relative to the very heavy demand placed on the banks by industry for finance. The bank meets this demand for funds on highly-selective terms, giving priority to those areas (such as export industries) deemed to be nationally important rather than the most profitable.

Complementary to the city banks in function, but competitive for funds are the 10 regional banks. These privately-owned institutions have been set up during the past 10 years to help finance the development needs of provincial areas.

The remaining, and newest, section of the banking sector, are the branch offices of foreign banks operating in Seoul and to a limited extent in Pusan, the second largest city. At present there are 24 fully-operative foreign banks, while about 10 more have established representative offices, which is usually the preliminary step to seeking a full permit.

Even in their foreign exchange lending the foreign banks are strictly controlled. They are subject to the foreign exchange requirement programme established yearly by the government to regulate the use to which foreign funds are put. The programme channels foreign funds into areas which are deemed to have high priority in the development of the national economy.

Guidance

Therefore all areas of retail banking in South Korea are subject to a very large degree of government direction or "administrative guidance." The degree in which this is entrenched is best illustrated by the "primary banking system" which has been set up to supervise corporate lending for the past two years.

No institution can provide loans of more than Won 500m to a target company without the approval of the primary bank. And, in the event that a company finds itself in financial difficulties, the primary bank will move in to devise a scheme to salvage the operation. Because foreign banks as well as the domestic banks must participate in this system, the overall effect is to give vast discretionary powers to the Bank of Korea through the primary banks. And it is through financial "guidance" such as this that South Korea has been able consistently to achieve the trade and industrial development targets its planners have set year by year.

Energy

The search for oil

SOUTH KOREA'S hopes of sustaining a 10 per cent annual growth rate up to the early 1990s depend on the solution of two external problems. One is to find enough markets for the goods that her industry will produce. The second is to ensure stable supplies of natural resources.

cent of South Korea's total energy needs in 1975, but were supplying 60 per cent of the total last year. A one-year-old long-term projection of the South Korean energy picture prepared by the Korea Development Institute (the latest material on the subject that is officially available) suggests that dependence on imported oil will reach 84 per cent in 1981 before it is hoped, tailing off in the late 1980s.

again by the early 1990s (reaching 130m metric tonnes in terms of anthracite equivalent by 1991). South Korea's energy situation could become easier if the country discovered oil resources on its own territory. The chances of this happening depend chiefly on what happens in the continental shelf area lying between South Korea and Japan where drilling for oil should start in the not too distant future following ratification last year by the Japanese Diet of an agreement providing joint exploration and exploitation of the area.

estimates, could contain deposits of about 2bn barrels. Whether oil is actually present in the area, however, will not be known until the drilling programme begins. This could be before the end of 1979, depending on how quickly Japan and Korea agree on the choice of a single operating company to conduct exploration.

shortly for station number seven and eight. (These figures fall to add up because one nuclear plant project in the government's original programme was cancelled after numbers had been allotted to later plants.) On the strength of this programme the Development Institute estimates that nuclear power may be supplying 10 per cent of South Korea's energy needs by 1986 and perhaps more than 15 per cent by 1991. This seemingly ambitious figure reflects the government's confidence that the development of nuclear energy will not be held up by the environmentalist opposition that has caused problems in the West (and in Japan where the difficulty of getting local government authorities to approve power station projects has forced the government to scale down its targets several times).

Nuclear

Heavy reliance on nuclear power will make it necessary for South Korea to sign long-term contracts for the supply of uranium instead of relying on purchases of enriched uranium as it has done up to now. The Ministry of Energy says it is "working on" this matter but the first long-term contracts have yet to be announced.

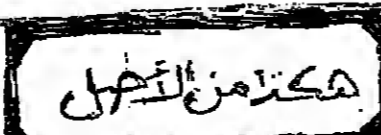
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Trade

Exports given every encouragement

SOUTH KOREA was classified by a team of investigators from the U.S. House of Representatives Ways and Means Committee, which recently visited North East Asia as one of the four "New Japans" whose export growth poses a threat to the survival of some branches of American industry. Most people in Seoul would probably view this designation as a derogatory, if flattering, exaggeration. The value of Korean exports in 1978, at \$12.7bn, was roughly one-eighth of the Japanese export figure, while Korea's surplus with the U.S. at \$663m, was less than one-tenth of Japan's. This does not alter the fact that exports are overwhelmingly important to Korea—probably more so than to any other developing nation with an economy of comparable size.

About 30 per cent of GNP is accounted for by exports, and the percentage has been rising since the late 1960s. Inevitably, therefore, Korea's economic strategy has been one of export-led growth (in contrast to the economic growth strategy followed by Japan in the first two decades after World War Two) where the growth of industry was based first and foremost on supplying a large home market. Exports are scheduled to grow more slowly over the next decade or so than they have done up to now. Exports, if they fulfil the Government's target, will show a 22 per cent increase this year over the 1978 level, which in turn was 27 per cent up on 1977. The annual growth rate will slow to 14 per cent in the early 1980s and 12 per cent in the later 1980s, but even at this rate Korea would still be increasing its overseas trade at roughly double the expected world average. In the period from 1985 to 1977 Korean exports grew at an average annual rate of 40 per cent.

One reason why South Korea's exports have grown so fast is that they started from a very low base. In 1963, the year that the present regime came to power, overseas sales were worth a mere \$37m. Even today Korea's exports on a per capita basis are less than half those of Taiwan (a little over \$200 compared with over \$500) and only about one-eighth of typical European levels. Starting from a low base, however, does not provide the full explanation for Korea's subsequent export achievement. In a closely regulated economic system the Government has done everything possible to "make exports fly" as one U.S. banker puts it. This includes setting export targets for the economy as a whole and for individual overseas markets, encouraging industry to sell its products at lower prices overseas than those charged at home, and ensuring a supply

of cheap export credit (currently available at a basic rate of 9 per cent per year compared with the standard rate for commercial loans of around 22 per cent). Another Government device to promote exports has been the creation of General Trading Companies on the Japanese model. These are set specific sales targets and in return enjoy certain financial and administrative privileges—besides the prestige of the much coveted "GTC" label. The main threat to the further rapid growth of Korean exports is the rise of protectionism in western markets—a problem about which the Ministry of Commerce and Industry, which has direct responsibility for seeing that export targets are met, claims to be very worried indeed. The U.S., which is Korea's largest market (taking 31 per cent of exports in 1977), maintains restrictions on Korean textiles, footwear and colour TV sets, while Japan restricts silk products, leather footwear and many different varieties of fish. European countries maintain a patchwork of restraints on the import of Korean products, ranging from textiles to black and white TV sets (in the UK), watches, radios and semi-conductors (France).

Korea's strategy for dealing with protectionism is four-pronged. In the short term it aims to increase the value-added content of restricted export items so as to earn more money within a given export volume. (Korea's trading partners claim it also shows considerable skill in exploiting loopholes within export restraint agreements, but this, naturally enough, is not part of the officially admitted strategy for dealing with the problem.) A second way in which Korea hopes to prevent protectionism from damaging its exports is by shifting the pattern of its trade from light industrial to heavy industrial goods. Textiles, clothing and footwear, which accounted for nearly 50 per cent of Korea's total exports in 1976, are expected to be downgraded by the late 1980s to about a 20 per cent share, while the general category of machinery exports should increase from 15 to nearly 50 per cent of the total. Korea is already beginning to promote exports of simple industrial plant such as cement and sugar refining equipment (these may be worth as much as \$1bn this year, according to the Ministry of Commerce and Industry, compared with the 1978 figure of around \$320m). It is recognised, however, that the switch from labour-intensive, low technology light industrial exports to capital and skill-intensive heavy industry products will pose a serious chal-



The fish market at Pusan. Fish products are among a long list of Korean exports that are finding difficulty in overcoming restrictions in overseas markets.

The Government has begun to show strong interest in the development of trade relations with China, which is regarded as both a natural market for Korean products such as steel and cement, and a natural supplier of raw materials, notably coal and oil. China, however, has shown no sign of wanting to do business with Korea. The possibility of instituting "indirect" trade between the two countries with Korean products being shipped via Hong Kong or Singapore is being considered in some quarters, but even this appears to be a non-starter for the time being. Japanese trading concerns, which might well act as intermediaries in such business, take the view that China will not embark on trading relations of any kind with Korea until it has succeeded in its current campaign to establish trade links with Taiwan.

The Government's last weapon against western protectionism is the paradoxical one of liberalising Korean imports. Korean industry was heavily protected against imports up to some two years ago (and is still extremely well protected in a number of sensitive areas such as motor manufacture). A programme of liberalisation, however, got under way officially in 1978, with the result that the Government now claims that 68 per cent of Korean trade has been liberalised on an item

basis. Another round of import liberalisation is due in 1979 and more will follow in the early 1980s, bringing the degree of liberalisation (again on the official basis of the number of items freed) to over 90 per cent by the mid-1980s. one time expected because of the huge backlog of domestic demand, while exports of cement and of certain food products had to be suspended altogether during much of 1978 in order to keep the home market supplied. The Ministry of Commerce and Industry cites supply shortages as one reason why Korean exports started 1979 at rates well below the levels needed to reach the target for the year, while imports were running at levels much higher than called for by the target. The Ministry also claims to be concerned about an overall cost differential of around 20 per cent between Korea and Taiwan in the manufacture of light industrial goods. Such facts provide a corrective to the alarmist view that Korean exports are poised to "take over" western markets. They do not mean that the Korean export drive is about to run out of steam.

Search

CONTINUED FROM PREVIOUS PAGE

have already been disturbed) but whether NIOC will be able to fulfil an undertaking to supply the refinery with oil. If it fails to do so Korea will find itself in the awkward position of having to look to another

producing country or to the international majors to cover the shortfall. Problems with NIOC could cause the Government to think twice about the wisdom of developing the refinery industry on the basis of joint ventures

between local business groups and State-owned oil companies of producing countries. Another project of this kind, involving the Hyundai group and Pertamina of Indonesia, is already on the stocks, however, and seems likely to go ahead

whatever the fate of the NIOC-Ssangyong venture. Korea's heavy dependence on crude oil imports as an energy source has caused problems for the Government's price stabilisation campaign, besides constituting a worry in the longer-term future. The direct impact of recent increases in crude oil prices on the wholesale price index this year is estimated at 1.04 per cent while indirect effects are put at another 0.52 per cent.

These price effects have driven home the need to find some means of insulating the economy from fluctuations in world oil supplies, but there is no indication that Korea has an answer to a problem which has baffled almost all the industrial nations.

SOUTH KOREA'S ENERGY NEEDS

	1975		1981*		1986*		1991*	
	Units	%	Units	%	Units	%	Units	%
Domestic energy supplies:								
Hydroelectric	655	1.2	987	1.0	2,127	1.3	2,127	4.8
Anthracite	15,945	29.5	20,258	20.4	23,364	14.5	20,670	7.0
Wood and Charcoal	6,706	12.4	4,543	4.6	3,034	1.9	1,719	0.7
Total	23,306	43.1	25,793	26.0	28,525	17.7	24,516	9.4
Imported energy supplies:								
Oil	29,733	55.9	62,738	64.2	88,790	55.0	130,113	50.0
Gas	—	—	—	—	—	—	7,885	3.0
Coal	1,010	1.9	7,864	8.0	27,705	17.2	57,089	22.0
Nuclear	—	—	1,720	1.8	16,416	10.1	40,623	15.6
Total	30,743	58.9	73,472	74.0	132,911	82.3	235,710	90.5
Grand total	54,049	100	99,265	100	161,436	100	260,226	100

Source: Korea Development Institute

SOUTH KOREA'S FOREIGN TRADE, \$M.

	1965-69 average	1970-74 average	1975	1976	1977	1978	1979
Exports	382	2,295	5,003	7,815	10,046	12,716	*15,590
Imports	912	3,204	6,674	8,405	10,485	14,524	*18,090
Balance	-530	-1,009	-1,671	-590	-439	-1,808	-2,500

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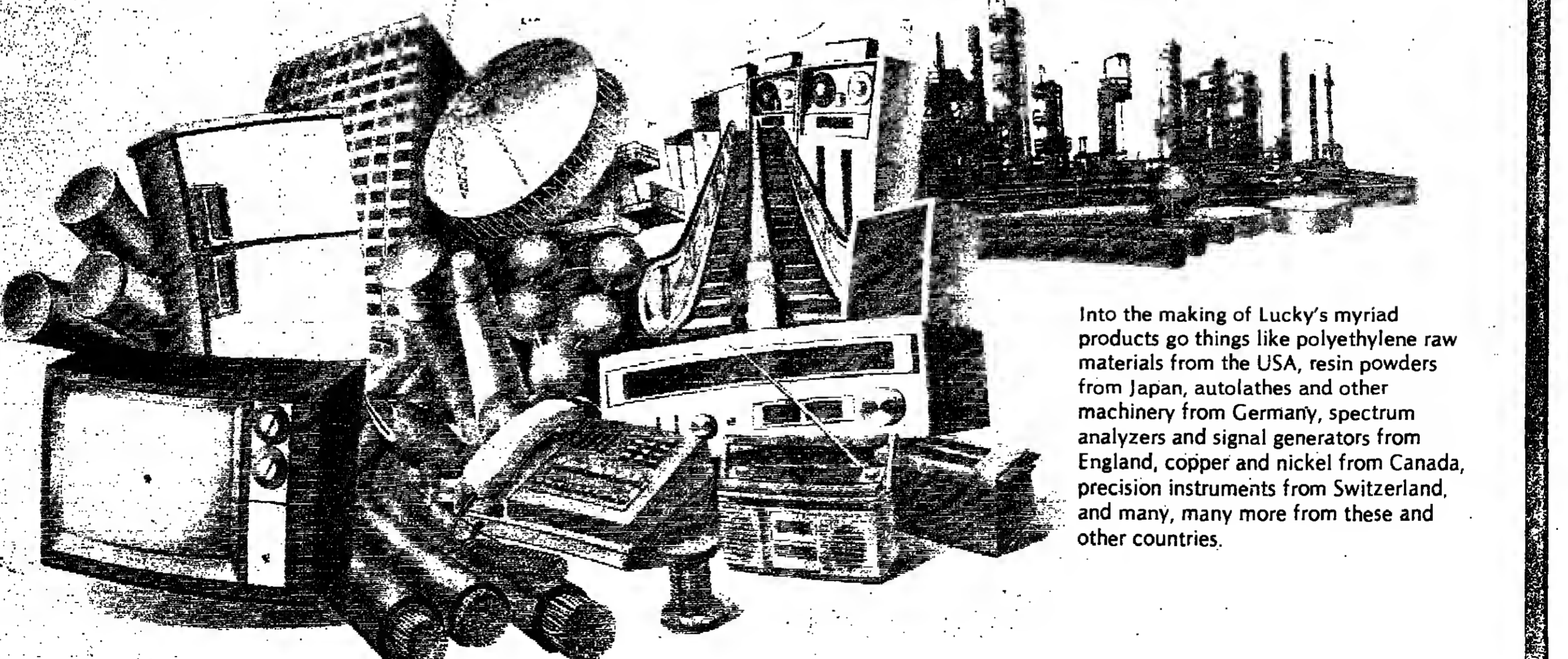
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Planning pays off

Agriculture

KOREAN FARMERS have come a long way from traditional despondency in recent years, and are now faced with the new challenge of adapting themselves to a fast-industrialising society.

The country is now self-sufficient in rice, the staple food, the income gap between agriculture and industry has been substantially narrowed, and rural living conditions, including the provision of electricity, have been greatly improved.

But to keep up with the growing demands for meat, milk and vegetables, and to cope with a continuing drain on the farm labour force as a result of the country's rapid industrialisation, the Government is actively promoting the transfer to a new concept of farming.

Until the mid-1960s, South Korea, a traditionally agrarian society, had been suffering from chronic poverty on the farms. Every spring the farmers went through a period of hunger before their barley crop was harvested. The rice paddies were so poorly irrigated that they were mostly at the mercy of the weather. More than a third of the rural families, which accounted for 56 per cent of the entire population, were forced to subsist on farms less than 0.5 hectares each in size. To help feed its overcrowding population, the country had to import large quantities of rice and other food grains every year under the U.S. aid programme.

The fundamental problem was the limited amount of the nation's arable land—less than a quarter of the entire territory.

When the Government of President Park Chung Hee initiated a series of five-year economic plans in 1962, the agrarian sector was virtually ignored, while emphasis was placed on industrial development. But beginning with the third five-year plan which started in 1972, increasing attention was paid to agriculture, making rural development one of the plan's chief goals. Top priority was given to increased production of food grains, especially rice, which represented nearly a half of total food consumption by weight.

In 1975 the country succeeded in reaching self-sufficiency in rice, in 1977 an unprecedented

15.2 per cent increase in rice production was achieved, that year's total of 6m tons rice production moving from an average yield of 4.94 tons per hectare—the world's highest figure, topping even neighbouring Japan.

This success in boosting rice output is attributable in the main to the cultivation of high-yielding local strains—tongil, yushin and miryang. The new varieties covered 70 per cent of the paddy fields last year, and this year, is likely to be 76 per cent.

Improved irrigation has also contributed to the increased rice production, as has better use of fertilisers and the widespread use of agricultural chemicals.

Apart from rice, South Korea has achieved self-sufficiency in barley, another important food grain. But the overall domestic grain supply was 25 per cent short of requirements because only negligible quantities of wheat and corn are cultivated at home. Wheat is an un-economical crop in Korea because of its long growing season, which prevents the double cropping that is possible with rice.

Another important factor behind the increase in rice output has been the Government's price support policy, which is responsible for purchasing substantial amount of rice and barley from farmers upon harvest every year at higher prices than it sells them to the consumer.

Although the accumulating budgetary deficit accruing from the price support programme has recently led to a call for its abolition, the Agriculture Ministry intends to continue it for several years, if only for rice alone.

Ministry officials emphasise that the price support is vital in narrowing the disparity between urban and rural earnings, which is certain to widen again as industrial wages are increasing.

The Government is now encouraging farmers to increase their off-farm earnings, since there is a limit to rises in farm rural income—such as that from off-season work at factories—rose to 28 per cent of the farmers' total annual earnings last year. It was still inadequate. The Government aim is 50 per

Factor

cent by 1980. To this end, it is pushing ahead with a programme to disperse industrial plants to rural areas; results so far are not satisfactory.

Another major problem facing Korean agriculture is the growing shortage of labour due to the continued migration to the cities. The rural population, which accounted for 55 per cent of the national total in 1965, was down to 31 per cent in 1978, and is forecast to decline further to 20 per cent by 1991.

As a result, the proportion of agriculture workers in the total working population dropped from 63 per cent in 1963 to below 40 per cent last year. What makes it worse is the fact that most of the city-bound migrants are young people.

The Government sees gradual mechanisation of farming as the only solution to this problem. To promote mechanised farming, the National Assembly last year passed a special law providing financial assistance in the

form of low-interest loans to farmers in buying farm machinery.

But given the small size of unit farms, less than a hectare per household, and the irregular shapes of paddy fields (only 18 per cent of which have been rearranged into regular patterns under a Government programme), mechanisation is still far off. At present, as the principal farm machine there are 210,000 locally produced small power tillers—one for every 10 households. The government plans to increase their number to 500,000 by 1986. Meanwhile, it will also increase rice transplanters and harvesters (which are rare now), to 120,000 and 80,000, respectively.

Another new direction for Government's agricultural policy is the promotion of the livestock industry to meet the fast-rising demand for meat and dairy products. Last year, for the first time, beef and mutton had to be imported, mostly from

Australia. This year, meat imports are expected to increase to 72,000 tons, costing about 140m won.

The Government is extending loans and tax benefits to encourage livestock and dairy farming. There are a number of constraints, including vast amounts of investment needed to develop pasture land on the hillsides which abound in Korea and the need to import most of the required feeds. Nevertheless, the Government has a long-range plan to increase the population of imported beef cattle from the present 47,000 to 726,000 by 1991 and dairy cows from 194,000 to 858,000.

One unique feature of Korean rural progress is Saemaul Undong, the new community movement, launched in 1970 at the initiative of President Park. An integrated rural development campaign with the concepts of "diligence, self-help and co-operation," it has been

instrumental in galvanising the farmers into improving their living environment and productivity, then raising their incomes. Elected village committees select projects, which are implemented chiefly by voluntary labour with some Government assistance in the form of cash and building materials.

Saemaul Undong started with such simple projects as improvements to roofs and drains; moved on to infrastructure projects, including farm roads, small bridges, electricity and piped water; and then to such supplement projects such as joint livestock raising and sericulture. Its latest project is Intervisage co-operation for regional development. The movement has now extended to urban neighbourhoods and factory workers to mobilise the entire nation in self-help projects at the local level.

Samuel Kim

Foreign investment

The rush slows down

FOREIGN DIRECT investment, which was once attracted into South Korea by the low-cost labour supply, still continues to flow in now chiefly because of the rapidly growing local consumer market. For the third consecutive year foreign investment arrived at an annual rate of around \$100m in 1978. This year's Government projection is for another \$100m.

Since the Government began encouraging foreigners to make equity investments in 1962, when a series of five-year economic plans began, a total of just over \$1bn has been approved in 891 cases; \$873m had actually arrived by the end of 1978.

When the Government decided to open the door to foreign investment as a means of financing its ambitious economic development plans and introducing technical know-how, the major attraction Korea could offer was a cheap labour market. There was an abundance of literate, hard-working, easily trainable and dextrous labour available at \$30 a month starting wage.

After South Korea normalised relations with neighbouring Japan, its former colonial overlord, in 1965, there began a sudden rush of Japanese investors into the country. Most of the Japanese investments were for producing labour-intensive goods such as textiles for export to Japan and other countries.

The Korean Government then enacted a special law governing the introduction of foreign commercial loans, equity investments and technological know-how. The law, still in force, provides for a five-year tax holiday followed by three years 50 per cent tax reductions to foreign investors. It also guaranteed the unlimited remittance of dividends or profits and the repatriation of principal after two years of operation. It was described as one of the most liberal foreign investment laws in the world.

Benefits

The tax benefits, which apply to both corporate and personal incomes taxes, customs duty, property tax and acquisition tax, were attractive enough to induce investments by Americans. Their money went mainly into the labour-intensive electronics assembly plants and such chemical lines as fertilizer manufacturing and oil refining.

In the league table of countries Japan came first with 59 per cent of all foreign investment approvals by the Korean Government in terms of cash, totalling \$584m in 665 operations. The U.S. followed with \$194m in 116 projects which accounted for 19.2 per cent.

Among the Europeans, the Dutch have the largest investments in Korea—\$73m covering four cases. They include a joint venture petrochemical project by Dow Chemicals of the Netherlands. West German investments total \$19m covering 18 cases, French \$11.2m (five cases) and Swiss \$12m (seven).

Investments by British companies amount to \$11.6m in five projects. They include \$5.6m by Hill Samuel for a 50 per cent equity stake in a merchant bank; \$4.1m by Lazard Brothers, also for 50 per cent interest in another merchant bank; \$1,050,000 by Lucas CAV for 70 per cent ownership of a plant manufacturing nozzles for diesel engines; \$800,000 by Spirax Sarco of Cheltenham, Gloucestershire, for 60 per cent share in a steam controller manufacturing plant; \$308,000 by Fosco Minsep of the Midlands in a factory producing chemicals for foundry and steelmaking.

The last three are in joint ventures with Korean partners to produce and market their products locally. "We came here in order to get into the Korean

market, which we found is large, growing and buoyant," explained Christopher J. Ball, president of Spirax Sarco Korea.

This company plans to start producing in June at its plant in Bilyoung, just outside Seoul. It hopes to export to other Asian countries from next year.

A. J. Wyatt, project manager of Lucas CAV overseas operations, who is helping set up the CAV Korea plant in Changwon on the south coast, expressed a similar view. "As a multinational company, an opportunity of looking for a plant in Asia and building a plant in Asia and saving the potential of future growth," he said.

Both Mr. Wyatt and Mr. Ball said that labour supply is no longer so cheap.

A machine operator should be getting the equivalent of \$350 a month, compared with a corresponding equivalent of \$550-\$600 in Britain, while the salary for middle management including bonus and other fringe benefits, is about the same as in Britain.

Government officials maintain that the average wage level for semi-skilled workers in Korea is still a little lower than in Hong Kong and Singapore and about equal to or slightly above Taiwan rates. Thus Korea seems to be fast losing its once large edge over other Asian countries as the cheap labour market for foreign investors: this is the result of successive 20-30 per cent wage increases in recent years.

This is reflected in the sharp decline of new investment in

labour-intensive industries. Indeed, the Government no longer approves foreign investment in textile industry because Korea's existing mills have trouble keeping up their exports because of quota restrictions by major importing countries.

According to Mr. Kang Shin-Joe, director general of the Bureau of Foreign Investment Promotion, the Government welcomes the following projects:

- Large-scale complex projects, such as metals, machinery and electronic equipment, which require high level of technology;
- Export-oriented projects which will contribute to exploring overseas markets;
- Projects which contribute to the development and effective use of domestic resources;
- Import substitution projects.

Mr. Kang said the latest trend is investment in food processing, and in heavy industries such as chemicals.

This year CPG International of the U.S. invested in a joint venture to produce snacks and instant noodles, Nestle of Switzerland in a joint project to produce baby foods and high protein foods, and the Lotte confectionery group of Japan in a milk and meat processing venture.

Brown Boveri of Switzerland is known to be negotiating with Seoul's Daewoo group for a joint venture to manufacture power plant facilities, and Babcock of West Germany for a project to produce power plant boilers. Volkswagen of West Germany is reported to be seeking a Korean partner for production of small cars.

Imperial Chemical Industries and Dunlop of Britain are also

said to be looking into investment possibilities.

Although there is no legal limit to the share of foreign investors in an enterprise, the Government allows, in principle, up to 50 per cent equity.

In the following cases, however, majority or 100 per cent foreign ownership may be authorised:

- Projects entirely export-oriented and at the same time contributing to raising the technological level of the particular industry;
- Projects with imported technology that is highly sophisticated and needed by the economy;
- Projects by multinational corporations that are permitted 100 per cent ownership in other countries because of their exclusive production techniques, business operations including market control on a global basis, or patent rights;
- Investments that are beyond the capabilities of local firms, because of capital requirements, technological sophistication or market opportunities.

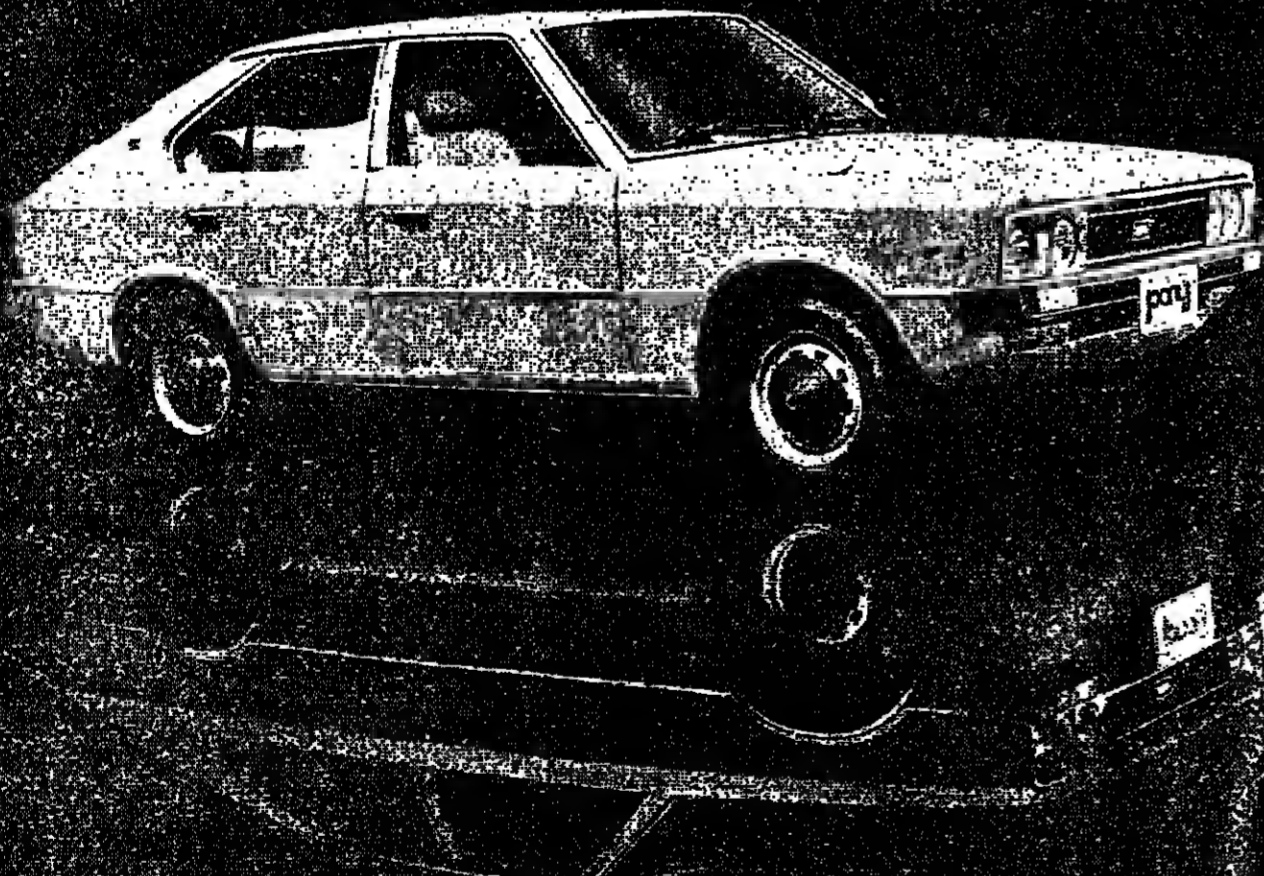
Investments from the countries with little previous participation in Korean economy.

The minimum amount of foreign equity investment authorised is \$200,000, but for electronics and machinery industries is reduced to \$100,000. In the industrial engineering field \$50,000 is the minimum requirement.

South Korea does not permit any portfolio investment in the stock market by non-resident foreigners. Even for residents no profits can legally be repatriated out of the country.

Samuel Kim

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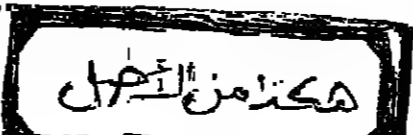
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On the last four pages of this Survey IAN HARGREAVES, who has recently visited South Korea's major industries, outlines the country's industrial strategy and looks in greater depth at individual sectors.

A second industrial revolution

SOUTH KOREA is now in the process of bringing about its second industrial revolution within 20 years.

The first revolution involved dragging a war-ravaged country, lacking raw materials and with an economy based on primitive agriculture, to a semi-industrialized condition. That meant using cheap labour to develop light industries, notably textiles, and the simpler ends of the consumer electronics and metal fabrication industries.

Hardly had the country adapted to its success in selling goods such as clothing, shoes and televisions before its economic planners started to argue that Korea must rapidly start to reduce its dependence upon the light labour-intensive industries upon which its success was based.

There are three main reasons for this decision: the awareness that Korean labour is rapidly pricing itself out of the cheap

assembly market (wages costs rose by over 30 per cent in both 1977 and 1978); the growing protectionist restrictions in advanced countries against high volume and low added value goods; and the feeling that competition from other developing countries will be less keen in more technology-intensive areas.

The strategy is for the heavy and chemical industries to account for 65 per cent of manufacturing output by 1991, compared with 48 per cent last year, and for light industries to decline from 52 per cent to 35 per cent.

Some of the implications of this policy are already apparent: for example, the emergence of Korea's motor and shipbuilding industries; but many features of the strategy are far less well defined and less easily described.

What Korean planners call the "machinery industry," the subject of four promotion plans

in the last eight years, is only now moving from the planning to the operational stage. The heart of the development is the Changwon integrated machinery complex near Binson, where the dust is still settling on the 51 plants already complete, but where another 130 factories remain to be built.

These factories have already started to turn out machine tools, construction equipment, boilers, nuclear power station components, railway rolling stock, motor components, transformers, turbines, cranes, bearings; indeed, anything and everything in heavy industrial production, involving a growing number of technology-intensive agreements and less frequently joint ventures with advanced countries. Last year the machinery industry entered into 104 cases of technological inducement out of a total of 265 in Korea (there were 42 electrical agreements and 38 petrochemical—the other key

developing areas). In spite of the Koreans' urgent desire to strengthen their links with Europe at the expense of Japan, well over half the technology deals were with Japan and another 49 with the U.S. The Koreans want to make this switch partly to reduce their trade deficit with Japan but also to improve relations with Europe on the protectionist front and because some companies feel the Japanese have sold them outdated technology of limited value in export markets.

So far the development of the machinery sector is very uneven. But it is already clear that it will be dominated by seven companies, which by 1981 are expected to have aggregate sales of \$6.1bn in this field and account for 60 per cent of the industry's output. They are Hyundai Heavy Industries, Samsung International, Daewoo, Samsung, Daehan, Kanwon, and Hysung.

Impressive progress has already been made in areas such as railway rolling stock, where Hyundai has recently joined Daewoo in contention for both substantial domestic orders and exports, which the Korea Development Institute expects to reach \$100m by 1991. Hyundai is reported to be close to a significant export deal with Greece, and at home the industry is now almost self-sufficient, with the help of foreign technology.

Output of heavy electrical machinery (generators, transformers, motors, etc.) reached \$222m last year, still significantly below the level of self-sufficiency has actually slipped back from 37 per cent and 9.5 per cent in 1974 to 17.8 per cent and 7.3 per cent last year. On the other hand, Korea already has a healthy surplus in the agricultural machinery trade.

The Government's goal is to achieve an overall level of self-sufficiency of 70 per cent by 1981 in preparation for a major export assault in the fifth five-year plan starting in 1982. It is interesting in this context to note the general policy of Korean industrialists, even where their export base is tiny, in spreading their products into as many markets as possible in order to gain maximum experience and to prepare distribution and marketing arrangements. Hyundai Motor is not untypical in exporting to more than 40 countries.

There are huge problems to

overcome if this and other industrial targets are to be met. In the short term a major difficulty is the shortage of investment funds in Korea because of the Government's anti-inflationary tight-money policies. Korean businessmen are used to high interest rates (18-20 per cent), but everyone is complaining about shortage of funds at the moment and some companies are talking of cutting back development projects by as much as 30 per cent this year if the reins are not eased. The shortage of working capital has also aggravated an always tight position in relation to component stockholding, which is an important reason for many industries' shortage of key raw materials in the early part of this year.

More underlying problems are the shortage of skilled labour, in spite of a recent decision to increase post-high school college places by 40 per cent last year. Employers are no longer able to count on a thick pile of applications for every vacancy, and in an area like Changwon the high demand for new labour is a big anxiety for some companies. This shortage of labour is also the reason for high wage inflation as employers fight to retain staff. Contrary to the Japanese model, labour turnover in Korea is high—8.4 per cent a month, according to the Economic Planning Board. Even so, the typical male industrial wage is still only between \$250-\$350 a month, including bonuses. A function of the shortage of skilled technicians and scientists is the still inadequate level of spending on research and development—less than a quarter of that in European countries and something the planners know they must reverse quickly to underpin the industrial strategy.

Coupled with general worries about the price of oil and the sluggishness of the world economy, there is much to sug-

gest that the second stage of Korea's industrial transformation will be harder to achieve than the first.

In pursuing its objectives, the Government's weapons are an armoury of import protectionism in the form of high tariffs against unwanted items (although the theorists of the planning Board are adamant that Korea is moving to an open and liberal trading pattern, more like that of Sweden than that of Japan), cheap loans for companies investing in preferred sectors, tax incentives and measures to encourage the inflow of foreign technology.

But probably more significant than all of these specific measures is the fostering of the nation's economic and industrial competitiveness through, among other means, the Factory Saemaul (new community) movement. This campaign, modelled on an earlier successful drive to get farm labourers to work harder and more cooperatively, has, according to company directors, produced dramatic improvements in labour productivity. In return for which companies have invested heavily in welfare and recreational facilities for their staff.

Saemaul is an important part of a set of national attitudes, stemming from the common desire to be economically superior to North Korea, which has so far kept South Korea free of labour troubles. Although a classically capitalist economy, great effort is expended by the Government in preventing ostentatious displays of wealth (it is common for plant managing directors to wear the same uniforms as their operatives) and in attempting to reduce income differentials.

"We are working for the next generation," is probably the most common philosophy one hears expressed in South Korea and it explains the willingness of most to accept the six or seven day week of 10-12 hour days. It remains to be seen whether the sheer effort and determination which has got Korea's industry through its first stage of advance will be sufficient to power it through the second.

Textiles

Still a major force

SOUTH KOREA'S industrial leaders have a habit of referring to their textile industry as if it were in a state of decline—the glory of a former light industrial age soon to be forgotten in the present generation's move into heavier and more technology-intensive sectors.

This is misleading. In 1978, textiles exports accounted for 31 per cent of the country's total sales of goods abroad, at \$3.98bn, the industry's export sales remained Korea's biggest foreign exchange earner and the key provider of capital for diversification into heavy and capital-intensive industry. It also employed 20 per cent of the workforce.

As the table shows, the Government expects the industry to continue growing, doubling the value of its exports in real terms between 1978 and 1981. The industry's own assessment, as disclosed by the Korean Federation of Textiles Associations, is to export goods valued at \$6.5bn (at current prices) in 1981 and \$10bn in 1986.

In that year, if the Government's target is achieved, Korea will be exporting \$50bn-worth of goods. So the textiles share will be down to 20 per cent of that total but, according to the association, the volume of textile exports will still have lifted Korea from sixth place in the world industry rankings to number one with 10 per cent of worldwide textile exports. Same decline, reason for the sense of decline, which is strongly felt

in the important long-range study of South Korea's economy to 1991 published last year by the Korea Development Institute, is the feeling that with wage-cost inflation running in excess of 30 per cent a year, Korea is soon going to be outperformed in labour-intensive industries such as textiles.

In particular, it is felt, Republic of China, whose textile industry costs are thought in Korea to be at least 65 per cent lower than its own, will emerge as a natural fibre products and then in synthetics.

Another reason for expecting poorer performance is the very great anxiety, felt in Korea, especially in the textiles and electronics industries, as the growth of protectionism in Western markets. The EEC is limiting Korean textile imports to a 6 per cent annual growth rate and the U.S. to 6.5 per cent. The industry says it could comfortably expand at double this rate in these markets if permitted.

But the South Koreans are realistic. They do not believe the restrictions will be eased, although they argue keenly (more in electronics and motor cars than textiles) that they should not be punished for the sins of Japan. Their response to the restrictions is to move into industries where restrictions do not exist.

That said, the Korean textile manufacturers have carefully laid plans for continued growth in spite of protectionism and in

spite of rising wage costs. That strategy involves switching to higher quality and higher added value goods in restricted markets and pushing more volume into unprotected markets.

Last year, quota-area countries took 49 per cent of Korea's textile exports (\$935m to the U.S. and \$735m to the EEC) and of the \$2,011m-worth of goods sent to unrestricted markets Japan accounted for \$1,040m. That, the South Koreans believe, indicates that plenty of room remains in other developing-country markets. The Middle East is of growing importance.

This year, garment manufacture will account for 62 per cent of exports, in 1986 for only 50 per cent, with fibres taking 37 per cent and yarns 13 per cent. Fabrics then, and principally synthetic fabrics, represent the real growth sector.

The preference for a future emphasis more on chemical than natural fibres is also based on the relative economics of the Korean industry compared with other developing countries. All of Korea's wool and cotton are imported, whereas Korea's growing chemical industry (described elsewhere in this survey) means that textiles companies will not be in the position for much longer where the chemical fibre manufacturers rely on foreign suppliers for 70 per cent of their AM monomer, 60 per cent of front caprolactam and all of their TPA.

South Korea's industrial planners feel certain that the days when the country's industrial economy could work merely by rapidly processing for re-export the raw materials of others are rapidly vanishing.

The synthetics sector of the Korean textiles industry is also its most modern. In the worst/cotton companies, 30,600 spindles (almost 1 per cent of the total) are over 20

years old, which is twice the accepted level of durability. In 1978, 31 per cent of spindles and 35 per cent of looms in the cotton industry were over this 10-year limit and the situation is thought to have improved little since then. Cheil Wool Textile, part of the Samsung group, says the average age of its spindles is seven-eight years and the company is now engaged to a five-year modernisation programme.

Cheil, biggest of the 27 wool textile companies in Korea, with about a 45 per cent market share, provides an interesting counter trend to the general strategy of the industry's move away from garment production. Cheil is still expanding fabric production, but is also starting to make garments with the aim of this sector accounting for 40 per cent of its \$400m projected sales in 1983.

Mr. S. B. Lee, the company's president, admits that the requirement for an extra 35,000 workers, mainly women, in the next five years is rather daunting in the current Korean labour market. The company's reasoning is that, tied to restricted U.S. and European markets for 60 per cent of its woolen and worsted business, garment manufacture, with the right attention to fashion, offers high added value opportunities.

One market which does look good for the South Korean manufacturers is their own. Rapidly rising real incomes mean that per capita consumption of textiles in Korea, which has risen 13 per cent in the last two years, is expected to double again in the next eight—to 18.7 kilograms per head in 1986. This is equivalent to the level of UK textiles consumption in 1973. The result is that by 1986, 43.5 per cent of the South Korean industry's output should be sold in its home market, compared with 33.4 per cent this year.

Imports

In some other areas, this is far from the case. For machine tools, the country relied on imports for over 65 per cent of its needs last year, and outside the simple lathe sector the dependence on foreign goods was even higher. In chemical and construction machinery, domestic needs have grown so fast that the level of self-sufficiency has actually slipped back from 37 per cent and 9.5 per cent in 1974 to 17.8 per cent and 7.3 per cent last year. On the other hand, Korea already has a healthy surplus in the agricultural machinery trade.

The Government's goal is to achieve an overall level of self-sufficiency of 70 per cent by 1981 in preparation for a major export assault in the fifth five-year plan starting in 1982. It is interesting in this context to note the general policy of Korean industrialists, even where their export base is tiny, in spreading their products into as many markets as possible in order to gain maximum experience and to prepare distribution and marketing arrangements. Hyundai Motor is not untypical in exporting to more than 40 countries.

There are huge problems to

KOREAN INDUSTRY: MAIN GOALS FOR 1986 (TOTAL EXPORTS \$50bn)

	Target	Intended world ranking
Steel:	20.6m tonnes capacity	10
Shipbuilding:	Annual capacity of 6.5m dwt	5
Motor industry:	Annual capacity of 2m units	9
Petrochemicals:	Annual capacity of 1.5m tonnes of ethylene	10
Electronics:	\$9bn exports and 85 per cent localisation of product components	5
Textiles:	\$10bn exports, 10 per cent world market share	1
Ceramics:	\$500m exports	5
Machinery:	\$10bn exports	5
Cement:	Annual capacity of 40m tonnes	6
Non-ferrous metals:	Self-sufficiency in copper, lead zinc and aluminium ingot	

MACHINERY INDUSTRY: IMPORTS AND EXPORTS IN 1978 (\$m)

Sector	Production	Imports	Exports
General machinery	961	1,230	155
Electrical machinery	2,281	871	972
Transport equipment	1,459	374	517
Precision machinery	231	151	146
Total	4,922	2,606	1,791

Figures include shipbuilding and electronic products. Source: Korea Society for the Advancement of the Machine Industry.

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PRODUCTION AND CAPACITY OF MAIN TEXTILE PRODUCTS

Product	1976	1977	1978	1981	1986	1991
Chemical fibre						
Annual production (000 tonnes)	354	395	463	736	1,033	1,352
Capacity (tonnes per day)	1,010	1,130	1,380	2,100	2,950	3,860
Self-sufficiency ratio of fibre output in synthetic textile industry (%)	82	82	85	90	95	98
Nylon 6						
Production (tonnes)	71,800	82,600	95,500	147,000	206,000	269,000
Capacity (tonnes per day)	1,010	1,130	1,380	2,100	2,950	3,860
Polyester F and SF						
Production (tonnes)	133,800	158,000	205,300	314,000	440,000	575,000
Capacity (tonnes per day)	380	450	590	900	1,260	1,640
Acrylic SF						
Production (tonnes)	102,000	107,300	105,900	182,000	255,000	333,000
Capacity (tonnes per day)	290	310	360	530	730	950

Source: Ministry of Commerce and Industry—latest estimates.

KOREAN TEXTILE EXPORTS 1976-1991

	1976	1977	1978	1981	1986	1991
Natural fibre	140	140	322	247	300	366
Man-made fibre	258	302	367	469	611	794
All fibres	398	442	689	712	911	1,160
	1976	1977	1978	1981	1986	1991
Total value of exports	2.74	2.9	3.56	4.88	6.1	7.3
Fibre and yarn	0.28	0.33	0.38	0.52	0.77	1.4
Fabric	0.66	0.68	0.99	1.31	2.28	2.92
Finished garments	1.8	1.89	2.19	2.77	3.05	4.46
Share of product category in total exports				1978	1991	
				11%	20%	
				28%	40%	
				61%	20%	

Source: Ministry of Commerce and Industry—latest estimates.

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SAMWHAN Turns Ideas Into Progress

SOUTH KOREA X

Steel

Public ownership debate

PUBLIC DISAGREEMENT between businessmen and the Government is still rare in South Korea; a country characterised by a remarkably high degree of unanimity about national economic and social objectives.

But there was an exception in the closing months of last year, when the country's three largest industrial conglomerates, Daewoo, Samsung and Hyundai, all made it clear with varying degrees of vociferousness that they would like permission to undertake the construction and operation of Korea's second integrated steel mill.

In the end, the Government ignored their bids and said that the number two mill, like number one, would be owned and operated by the Pohang Iron and Steel Company (POSCO), a company formed in 1968 with a 50 per cent Government stake and 50 per cent from a mixture of banks.

The Government was, of course, only following a general

steel industry trend for public ownership of what is a highly capital intensive industry, besides reiterating its confidence in the ability and experience of POSCO, which even the rival conglomerates agree produces steel of acceptable quality.

There were many reasons for the private sector wanting a major stake in the future of Korea's steel industry. One is the industry's profitability, with POSCO returning a net surplus of \$40m last year against \$32m in 1977; a second is the attractiveness to these conglomerates, which are all heavy steel consumers, in having guaranteed supplies at controllable cost and quality.

But a more general and underlying feeling among the big industrial groups is that the Korean Government is being too cautious about steel and ensuring by its caution that the country will remain a net importer of steel for the foreseeable future.

In its plan for the second mill, the Government has responded to this criticism by firmly committing itself to an enlarged target of 12m tonnes a year capacity for the facility, which is virtually certain to be built at Asao Bay on the West coast of the peninsula. The 3m-tonnes a year first stage, which is estimated to cost \$2bn, is due to start operation by 1984 and it will be financed by a mixture of POSCO's retained earnings and foreign credit associated with purchases of equipment from overseas. There is no indication yet whether POSCO will rely on the same Japanese and Austrian technology upon which it based its initial integrated mill, but in view of the fact that subsequent stages of the first mill have involved large contracts with other countries, the field would appear to be open for the new project.

In the private sector, the rebuff over the second steel mill

has not deterred the big companies from moving forward. ICC, which is one of Korea's 12 general trading companies, last year took over Union Steel, whose 0.7m tonnes of crude steel output last year made it the largest private sector steel-maker. In the same year, Hyundai bought the small Inchon Iron and Steel company, and Kumho, another general trading conglomerate, took over Kukdong Steel. Hyundai plans to increase the output at Inchon from 380,000 tonnes to 1m tonnes, and Union Steel has plans for a new 500,000 tonne-per-year development.

Experience

These groups probably retain the hope that if they can acquire substantial experience of steel-making they may be in the running when the Government comes to authorise a third coastal integrated steel complex, perhaps towards the end of the next decade. Meanwhile, Hyundai, at least (as described in the article on construction), is also showing interest in taking both a financial and operational stake in the steel industries of other developing countries.

This increase in private sector steelmaking, which mainly uses electric arc technology and turns out reinforcing bar, pipes and galvanised products, does have the effect of introducing greater flexibility into South Korea's steel strategy in that the private companies may well be able, if their plants are profitable, to extend production facilities beyond existing targets. The fact that by 1981 Korean experts are predicting a more than 6m tonnes a year shortfall between domestic production and demand will clearly encourage this trend.

So the world steel industry does not have to worry too much in the next ten years about being swamped by Korean steel exports, in spite of the recent dramatic statement by President Park Chung Hee that by 1986 South Korea would be the world's tenth largest steel producer.

There will, of course, be some exports during this period, partly because of POSCO's need to earn hard currency to finance its debts and future development and partly because the corporation's uneren product range means it is unable to meet

domestic demand (especially for steel plate, coils for re-rolling and for special alloy steels) while having disposable surpluses of other products. Last year, Korea exported and imported 1.3m tonnes of steel products. The country's exports thus accounted for less than 2 per cent of world steel trading.

In the past the planners have shown a tendency to underestimate Korean steel demand, which is now expected to reach 10m tonnes this year, three years ahead of schedule, and to continue growing at around 24 per cent a year. The more rapid than expected growth of the construction industry has been partly responsible and this year Korea expects to import 160,000 tonnes of reinforcing bar to satisfy a 30 per cent increase in demand for the product. Total domestic demand for reinforcing bar is put at 1.3m tonnes this year.

Some steel products, such as girders, steel rails and sheet piling, are not currently produced in Korea at all and so will continue to be imported for the foreseeable future. There is also a severe shortage of many special steels, although an important gap for the electrical industries will be filled from September of this year when POSCO brings on stream an 80,000 tonnes a year silicon steel manufacturing plant.

Last year, there was a big shortfall in stainless steel production, with the Korea Special Steel Company (part of the Sammis group) turning out 150,000 tonnes of stainless steel bars, plates and pipes against domestic demand of 540,000 tonnes. A new stainless steel plant with 100,000 tonnes per year capacity is to be constructed, starting this year, by Daehan Jungki, and Korea Special Steel will by 1985 have completed its expansion programme for another 450,000 tonnes per year capacity. According to the Ministry of Commerce and Industry, this will give Korea a total capacity of 1.5m tonnes a year in special (mainly stainless) steels by 1985, by which time domestic demand is predicted at 2m tonnes.

The Government says that more rapid expansion is impossible because of shortages of skilled labour and difficulties in raising the vast capital sums required.

South Korea's brushes with steel protectionism, with the EEC, the U.S. and Australia, have also cooled the ardour for

steel exports. In 1978, exports to the EEC are provisionally estimated at less than 100,000 tonnes, against a permitted voluntary quota level of 230,000 tonnes. The Koreans feel that it is not worth upsetting Europe over steel at a time when they are urgently trying to foster trade and technology links with the continent as part of the switch from economic dependence upon Japan. Steel imports from the EEC, meanwhile, have been allowed to grow to 175,000 tonnes in 1978 as part of the same strategy.

When POSCO does export, however, its prices are highly competitive—10 per cent below those of Japan. This reflects lower wage costs and a high level of productivity, which POSCO now puts at 437 tonnes per man year, compared with Japan's 445. European productivity is generally lower, although precise comparisons are impossible because of different systems of counting employees. At POSCO, there are 4,500 subcontracted workers who are not taken into account in the productivity calculation. Domestic steel prices are controlled directly by the Government and for much of last year were running above international levels (steel plate, for

Dependence

In the field of non-ferrous metals, South Korea's present goal is one of self-sufficiency, reflecting, as with steel, a heavy dependence upon imported raw materials. Substantial imports of aluminium and lead ingots are expected to continue for some years, although production of electrolytic copper and zinc (the latter is one of Korea's few basic metal products for which there is adequate supply of domestic ore) is now just about equal to domestic demand. In the case of refined-lead, imports will continue in spite of domestic ore resources because domestic demand remains inadequate to justify investment in a large-scale refining project.

Motors

Demand takes off

KOREAN MOTOR INDUSTRY PRODUCTION AND EXPORTS 1967-1978 (UNITS)

	Cars		Buses		Trucks		All vehicles		
	total	exports	total	exports	total	exports	production	motor exports	
1967	4,983	—	236	—	1,385	—	—	6,604	—
1975	18,509	—	3,808	—	14,973	—	31	37,290	31
1976	25,605	558	3,468	36	19,218	649	48,282	1,243	—
1977	42,284	5,075	3,453	6	35,263	4,053	83,000	9,136	—
1978	85,693	23,698	7,279	67	63,446	566	156,418	26,271	—

Source: Ministry of Commerce and Industry.

MR. CHUNG SE YUNG, president of the Hyundai Motor Company, received a very loud cheer earlier this year when he told a mass assembly of his 10,000 production workers: "It will not be long before you guys too own automobiles."

Two years ago that proposition would have sounded absurd. Then, with GNP per capita of \$752 and taxation policies designed to curtail what little domestic demand existed, Korea's motor industry had little prospect of a home base. In 1978 the country had one motor vehicle for every 164 people—compared with a 1:4 ratio in Japan.

That was the climate in which Mr. Chung had to persuade his board to invest in the motor industry, and in which the three local motor manufacturers were seeking with difficulty to convince the Government that Korea's proposed car plants could be profitable and successful exporters.

Today the picture is transformed. As per capita GNP passed the critical \$1,000 mark last year (it is projected at \$1,498 this year) domestic demand took off. There is now a six-month waiting list in Korea for delivery of the country's only home-bred car, the Hyundai Pony.

This is despite continued heavy taxation on cars, which has become to seem more necessary as the streets of Seoul have progressively become choked with traffic. Half the Pony's \$3,000 retail price in Korea is tax and from April onwards the annual car tax for a Ford Granada (assembled from kits by Hyundai since the end of last year) will be \$3,760 and \$507 for the Pony.

Bonds

Those who want to register a car in Seoul also have to buy bonds to help finance the construction of future stages of the capital's underground railway and they can shortly expect to face a Singapore-style zoning system which will impose heavy fees for anyone using a car in the peak hour with less than a full load of passengers. To complete the picture, petrol now costs well over £1 a gallon.

The effect of Hyundai's export objectives is obvious. From a position of scouring every export market in the world, from Tibet to Belgium, Hyundai is now trying to hold down the level of exports. "I hope we can keep it to 25,000 units this year, but we may be forced closer to 27,000," says Mr. Chung. A few months ago the 1978 target was being put at 30,000, against 20,000 in 1978. The revised export target is to be spread among 40 countries, so the Pony is going to remain a rare animal in all its overseas markets.

One small by-product of this situation is that exports to Britain are unlikely to start within the next two years, even though a right hand drive version of the Pony will be ready later this year. The initial European test market operation in Belgium and Holland, begun at the end of 1978, is said to have gone well, but there will simply not be enough cars to continue the thrust.

The Korean motor industry's priorities then are to scale up production to 1m units in 1981 and to 2m units in 1986. The Government wants half the 1981 output and 70 per cent of the 1986 output to be exported. Of

the 2m units 70 per cent will be cars, 20 per cent trucks and 10 per cent buses and special vehicles.

In the present situation this throws a heavy responsibility on Hyundai, whose share of output between now and 1981 is expected to increase from 50 to 60 per cent. The Pony remains the only genuinely Korean car and it accounted for all but 7,000 of last year's motor vehicle exports.

Hyundai is in the process of extending its plant at Ulsan on the south coast of the Korean peninsula to raise capacity to 250,000 units a year by 1981. Of these 200,000 would be Ponies, 20,000 Mark IV Cortinas and Granada kits and 30,000 truck and bus.

But the leap now being planned is for a new plant to be constructed inland (thus rejecting the British and U.S. advice which persuaded Hyundai to go coastal with its Ulsan plant, which has since suffered from subsidence, having been built on reclaimed rice paddy) and to be complete by 1984. It will be financed by an issue of shares of the Korean stock exchange, where Hyundai has kept investors happy with another 22 per cent dividend this year, resulting from post-tax profit of \$21m on gross sales of \$440m in 1978.

Pony production will continue to be concentrated at Ulsan, but it remains to be seen whether the new designs which Hyundai and its Italian design consultant Mr. Giorgetto Giugiaro now have on the drawing board will be ready in time to go into production in the new plant. These designs centre around a slightly larger engine than the Pony's 1900 cc Colt equipment and seem most likely to result in a car designed to present a challenge in the Ford Cortina range. Later this year the Pony will also be available in a 1600 cc version.

One option which Mr. Chung has resisted, despite Government pressure, is to go into the small car market. It was even rumoured at one point that Government officials, following the administration's very active energy conservation policy, were preparing to liberalise (ie

reduce import tariffs to non-people levels) the import of cars under 900 cc in order to apply pressure to the domestic manufacturer.

Mr. Chung dismisses such a possibility as nonsense. "It would simply flood the market with Japanese cars and that's the last thing the Government wants," he says. His own company's research has indicated, he says, that the Korean market, with its predominance of large families, is not right for a mini-car. The Pony is the smallest Hyundai intends to go and Mr. Chung says his view is supported by experience in the Japanese market, where small-model designs have not been successful.

Of course there is always the possibility that one of the other manufacturers will choose to rush in where Hyundai fears to tread. Probably the most interesting development in the Korean motor industry in the last year was the entry of the Daewoo group, which took over the Korea Development Bank's 50 per cent stake in Saehan Motors and thus entered a joint venture with General Motors.

Daewoo, founded as recently as 1967, is one of the fastest growing of the Korean conglomerates and last year recorded sales of \$2bn. It has a reputation as one of the brightest and toughest groups in Korea and is expected both by Government and its competitors to take Saehan into new and more adventurous fields involving the development of its own model as a rival to the Pony. Up to now Saehan has only assembled Opel and Chevrolet models with Japanese and German engines for the company's large range of buses and trucks.

Meanwhile Kia, which set out as a bicycle manufacturer and still has a strong line in Honda-licensed motor-cycles, concentrates its passenger production on the successful Erisa, manufactured under licence from Toyo Kogyo of Japan, where the car sells as the Mazda Familia. Kia, having taken over the Asia Motors bus-manufacturing company, is also an important manufacturer of commercial vehicles, but the 1980s should

see it, too, emerging as an independent car manufacturer. If the Korean motor industry is to meet its Government target of exporting 1.4m units in 1986 (more than 50 times the 1978 level) there will clearly have to be rapid expansion beyond that already publicly indicated by Hyundai.

It will be interesting to see to where Korea will look for its motor industry technology in the future. Hyundai, in preparation for its new plant, has been talking to a number of major European manufacturers including Renault and Volkswagen, but Mr. Chung says these discussions have not been concluded. "It has still not been decided whether we need to have a partner at all," he says.

It is certain though that the new plant will rely heavily on foreign machinery imports and that it will be much more highly automated than Ulsan, where local management has struggled to get the man-hours rate for Pony production down from 60 to 30 per unit, which is still 12 man-hours short of the Japanese rate for a comparable model.

It is also certain that the investment will be heavy at a time when Hyundai must be relying heavily on the profits made from its assembly of knocked down kits of Ford models to offset losses on exported Ponies. Under an agreement with Government, Hyundai can import one Granada kit for every five Ponies exported.

The Granada sells for an astonishing \$28,000 in Korea, although more than half of this is tax. The Pony is now 85 per cent Korean-made, although this claim disguises the fact that many components are assembled from overseas kits or manufactured with licensed technology.

Meanwhile domestic demand, fuelled by the rapidly increasing wages of, among others, the Hyundai workers, will continue to boom, perhaps taking domestic demand to 2m units a year by 1981. This would indeed be a volume base from which the Koreans could make serious inroads into the world motor vehicle market.

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BALANCE SHEET		INCOME STATEMENT	
As at December 31, 1978		For the years ended December 31	
ASSETS		(in US\$ 000)	
Cash and deposits	5,416	Income from lending	1978 1,311
Marketable securities	966	Fees and commissions	723
Beneficial certificates	3,709	Profit from securities trading	577
Notes due	33,236	Other income	219
Loans in Won	6,341		3,820
Loans in foreign currency	2,109	Administrative expenses	1,710
Other assets	942	Income before tax	3,984
	52,809	Provision for tax	1,199
		Net profit after tax	2,664
			1,478

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Exec. Vice President: Michael J. Bentley
Exec. Vice President: Hak Su Yun

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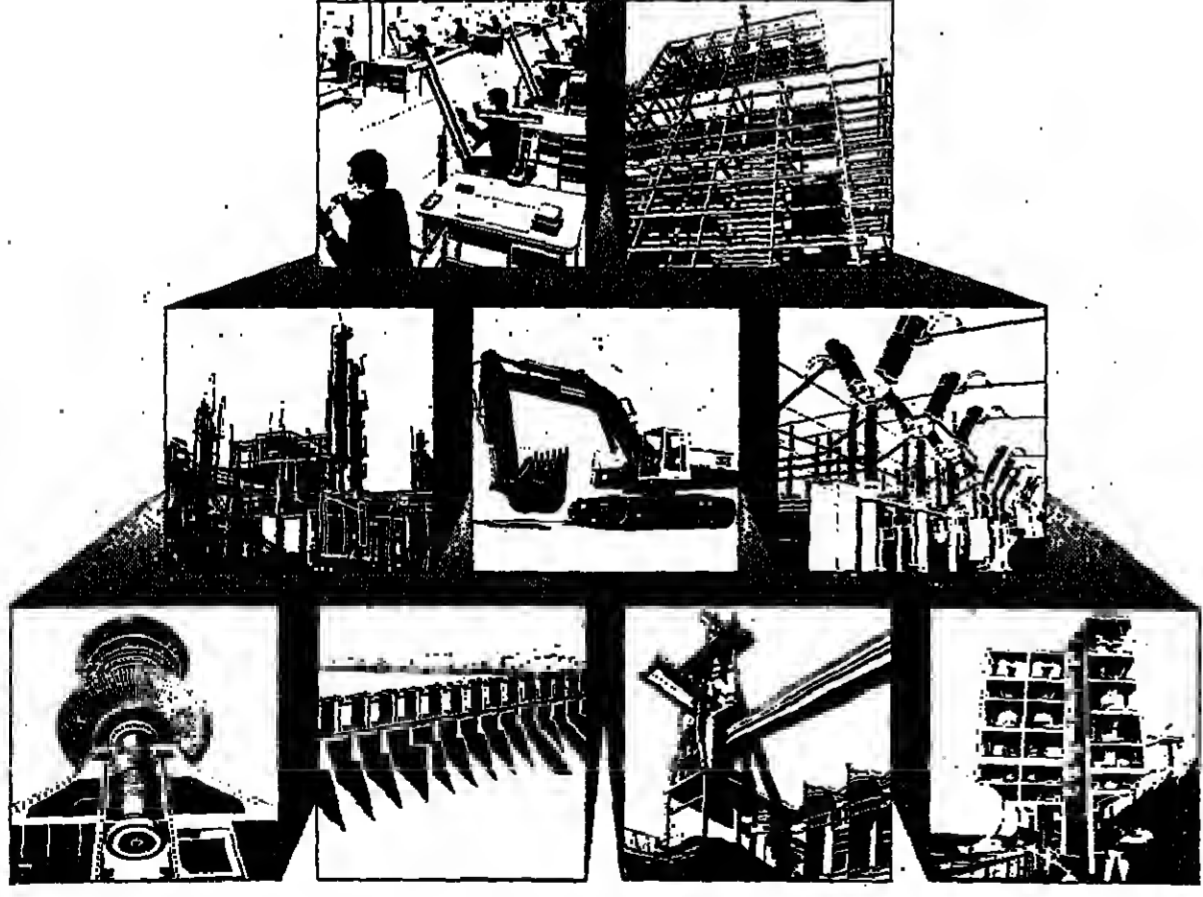
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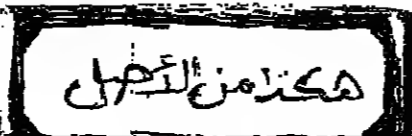
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Electronics

A challenge to Japan

NOWHERE IN South Korean industry is the sense of treading in Japanese footsteps more strongly felt than in the electronics business.

The Government is the opening of what they believe will be flooded in the domestic colour television market.

has delayed its tube manufacturing plans, but will still be producing colour tubes in bulk later this year.

In Europe too, I'm looking for offers, says Dr. Y. S. Chang, a key member of the Samsung managerial think tank.

The Korean industry will be busy filling the gap in low-price audio left behind by the Japanese.

Table with 5 columns: Company Name, Main products, Output 1978 (\$m), Exports 1978 (\$m), Employees, Market share (%). Includes Gold Star, Samsung Electronics, Motorola, etc.

Table with 4 columns: Category, 1978, 1979, 1981, 1986. Includes Semiconductors and integrated circuits, B/W television, Radios, etc.

SAEHAN MERCHANT BANKING CORPORATION. INTERNATIONAL AND DOMESTIC MERCHANT BANKING SERVICES TO KOREAN AND OVERSEAS COMPANIES. Shareholders, Executive Directors.

Construction

Overseas contracts soar

LAST YEAR, South Korean construction firms provided their country with an embarrassment of riches as the pace of their expansion overseas continued to outstrip all forecasts.

Mr. C. W. Choi, chairman of the Samwhan building company and also president of the Construction Association of Korea, says there must now be a big campaign by the Koreans to identify themselves as "development partners".

Whether the rest of the world construction industry should worry and refuse to cooperate with the Korean strategy, or whether it should see the availability of still relatively low-cost Korean partners with intensive brief experience of some very big projects, is clearly going to be at matter of judgement in the advanced countries.

As Korean costs continue to rise sharply, clearly the competitive edge is harder to find, and the Koreans accept that after four very good years in the Middle East, they will increasingly have to sell on quality.

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Ambitions

There is no doubt, also, that these major construction companies are destined to play a much more central role in the growth of the Korean industrial economy in general by providing, in addition to their conventional civil engineering skills, the assembly component for Korea's ambitious programme of plant exports.

Pressure

As Korean costs continue to rise sharply, clearly the competitive edge is harder to find, and the Koreans accept that after four very good years in the Middle East, they will increasingly have to sell on quality.

SOUTH KOREA XII

Shipping and shipbuilding

Sprint strategy a miscalculation

SOUTH KOREA'S shipbuilding industry represents, arguably, the gravest miscalculation so far by the country's industrial planners. The strategy to sprint within 15 years to second place in the world industry behind Japan—although still not necessarily unattainable—has resulted in a string of serious financial problems.

Two of the companies licensed to build important new plant, Koryo and Korea Shipbuilding and Engineering, found the strain of financing construction at a time of profound recession in their existing businesses too much and their part-complete facilities have now been passed over to the more secure financial strongholds of two of Korea's biggest conglomerates, the Samsung and Daewoo groups respectively.

Meanwhile, Hyundai Heavy Industries, which set the Korean industry on the road to international status, has had to cut its shipbuilding workforce from 30,000 to 20,000 in the last two years as it has struggled, in spite of highly competitive pricing to fill its huge docks which are capable in theory of swallowing 1.6m dwt of orders per year.

In 1978 Hyundai had to be satisfied with output of 29 vessels aggregating 693,000 dwt and its order book in mid-March comprised 33 vessels totalling 731,900 dwt.

During this difficult period, Hyundai has been able to draw strength from the rest of the group and the 10,000 men no longer employed in shipbuilding have been comfortably absorbed into other heavy industrial activities, such as steel fabrication for land construction work, in the vicinity of the Ulsan yard. In Korea, there is no shortage of demand for experienced steelworkers and outfitters.

Mr. C. H. Cho, the Hyundai Corporation director responsible for ship sales, also says the yard has struggled resolutely to maintain profit margins in its tenders for new business where Hyundai has frequently undercut its competitors by as much as one-third and still undercuts Japan by 10 per cent. But he admits that in practice the margin frequently has vanished under the tide of rising costs once the contract has been started.

No financial figures are published for Hyundai Heavy Industries, which is a part of the Hyundai group not yet quoted on the Seoul stock exchange.

Meanwhile, Hyundai continues to try to improve its range of technical skills and versatility as a shipbuilder. About 30 engineers were sent for training overseas last year as part of the yard's build-up to offering its services as a builder of liquid natural gas carriers in association with Gaz-Transport and Technigaz. So far, however, the yard has not won an order for this most sophisticated type of merchant ship.

On a more mundane level, the shipyard, like its neighbouring Hyundai Mipo ship repair yard, is also working hard at improving quality, especially on the outfitting side. Workforces at both yards have been criticised by Western equipment suppliers over the quality of on-site installations.

Mr. Moon-Doh Chung, president of Mipo, believes his yard has now established firm quality control on basic repair jobs. "You have to remember, we are still new, so that for certain complicated works we may require a little more improvement," he says. In spite of that, Mipo operated at 80 per cent capacity last year—a very reasonable performance in the circumstances of the market—and is confident of lifting last year's gross turnover of \$50m by 30 per cent in 1979.

Established

Hyundai's shipbuilding yard, six years old last month, is by Korean standards a regenerated old-timer in the industry and certainly well established in a way not true of the country's other large-scale shipbuilding facilities at Koje and Okpo islands.

The Koje yard is now practically complete, requiring only construction of the workers' accommodation—standard at large industrial sites in South Korea.

Koje yard began as a two-stage project involving construction of two docks, one of 100,000 dwt (or Panamax-size) capacity and a second able to hold ships up to 500,000 dwt. The project then was the

work of the Koryo company, but soaring construction costs created cash-flow problems and in 1977 the Samsung group, Korea's oldest and perhaps strongest large industrial and trading group, took over the project as a substitute for its own plan to build a mainland shipyard.

Early last year, Samsung signed an agreement with Burmeister and Wain of Denmark and IHI of Japan for technical assistance in running the yard and in training workers. About 1,000 men are now on site and at work on the company's first contracts.

These orders are from Indonesia, with which Korea has close ties, for two 15,000 dwt oil products carriers and the yard has also won an order recently for a 20,000 dwt products carrier from Pan Korean shipping.

Mr. Eun Taik Lee, President of Samsung Shipbuilding, admits frankly that the \$20m contract figure for the Indonesian deal is a loss-making figure. "We will have big losses with these ships, but we have to do it because as newcomers to the industry we must gain experience." He adds that other deals now under negotiation with Australia and Northern Europe have been pitched closer to profitability.

Mr. Woo Dong Cho, chairman of the shipbuilding company and of the parent Samsung Heavy Industries, says the company has no regrets about entering shipbuilding, which he is confident is a strategic industry for the economic advance of both Korea and Samsung. However, the company has gone back to the drawing board on the second stage of the yard, originally due for completion in 1980.

It could still emerge as a 500,000 dwt VLCC dock (with the perhaps more useful possibility of building two Panamax carriers side by side), but it is equally likely to turn out to be the size of the existing dock. "We have no firm commitments," Mr. Lee says.

Potentially the most exciting venture in Korea shipbuilding because the least defined, is the Okpo island yard, designed by Korea Shipbuilding and Engineering to take that long-established company into the big league of world shipbuilders

Ownership	Nominal capacity	Prospects
Hyundai Heavy Industries	Unquoted company, part of Hyundai group. Sales handled by Hyundai Corporation	1.6m dwt per year Orderbook of 731,900 dwt
Korea Shipbuilding and Engineering (KSEC)	Long-established independent company	700,000 dwt per year Orderbook of six months' work
Daewoo Shipbuilding and Heavy Machinery	Daewoo conglomerate took over Okpo island yard construction from KSEC last year. Due for completion 1980.	Largest shipbuilding dock in world with 1.25m dwt capacity Uncertain, but likely to involve heavy non-marine content
Samsung Shipbuilding	Samsung conglomerate took over Koje island yard project from Koryo. Almost complete	Single 100,000 dwt dock, plus plan for second dock of undetermined size Orders for four products carriers

with a giant 1.25m dwt construction dock.

The burden proved too great for the limited means of KSEC, already suffering from the industry's slump, and the Government spent some time looking for an alternative operator. Both Samsung and Hyundai looked at Okpo and decided it was not viable only to find that their arch-rival, the younger and some say more ambitious Daewoo group, was prepared to take it on.

Formally, the ownership is shared between Daewoo (51 per cent) and the Korea Development Bank (49 per cent), but it would be normal for the bank's share to be sold to private investors once the project is established. Daewoo says it expects its own investment to amount to \$400m and the bank has put up \$140m as paid-in capital for what is in effect an interest-free loan to cover Daewoo's basic construction costs until 1981. Most of the rest of the cash is coming in the form of guaranteed loans

associated with foreign equipment purchases.

Characteristically, Mr. Kim Woo Choong, 41, chairman and founder of the Daewoo group, has chosen a finance man to head the new venture. Mr. In-Kis Hong, president of the recently titled Daewoo Shipbuilding and Heavy Machinery, spent 16 years with the Korean Finance Ministry, and via the bridgehead of an economics refresher course at Harvard, joined Daewoo in 1977 to run its Orient Securities affiliate.

He took up his present job five months ago and is the same age as Mr. Kim. Last year, the Daewoo group had exports of \$850m and it intends to boost this figure to \$1.2bn this year.

Okpo will not contribute to exports in 1979. The takeover process has delayed construction work and the basic shipyard facilities, designed by A and P Appledore of the UK, now will not be complete until the end of 1980. Daewoo Development, the group's con-

struction company, has also taken over site operations at Okpo.

By 1982, Mr. Hong says that Okpo, now a fishing village, will have a population of 100,000 and his company a workforce of 20,000 Koreans. He has already started to recruit and Daewoo will shortly open its training school at Okpo to create 1,200 skilled men a year. "The men at Okpo will be the elite and they will have the most comfortable and hospitable environment possible," he says.

But the real question is: what will Okpo build, given that the 1.25m dwt tanker, which looked a certainty when the yard was conceived pre-1973, is still no more than a fragment of the wider shipowners' imaginations?

For a start, Mr. Hong says, the workforce will engage in the structural steelwork and crane construction necessary to equip Okpo itself. It will then become the company's answer to Chongwon.

This is hardly a modest statement as Chongwon is the heart of South Korea's heavy industrial future—a site for 191 heavy machinery works still being carved out on a 12.5m square metres site 50 km inland from the major port of Busan.

Mr. Hong says Daewoo will build on its existing technical agreements with such companies as Brown Boveri of Switzerland, IIT and Babcock to produce a wide range of heavy industrial plant and equipment, using the huge concrete dock as a steel fabrication yard. As demand emerges it will also build ships, but it is important to note that so far the company has not signed any technical agreement with a shipbuilder.

The uncertainty over Okpo's eventual status in the pure shipbuilding industry and of Samsung Shipbuilding's second phase injects a large measure of uncertainty into South Korea's future shipbuilding capacity, still officially intended to increase to 4.25m grt per year by 1981, compared with 2.7m grt pre-Okpo and Samsung.

That 4.25m figure is what has given the OECD shipbuilding working party such anxiety in the past two years because it represents about one third of the total volume of orders fore-

	PROJECTIONS			
	(gross registered tons in 000s)			
	1976	1978	1985	1991
Construction for domestic owners	50	158*	555	1,012
Ship exports	634	618*	1,548	3,125
Total ship output	684	776*	2,103	4,137
(% share of world market)	1.9	3.4	6	7.5

Sources: Ministry of Commerce and Industry (1976-78 figures)
Korea Development Institute (forecasts). * Provisional.

cast for 1980-81. In practice, for the reasons suggested above, real capacity in terms of available workforce is unlikely to reach 3m grt in that year, although the Koreans are obviously ready to spring when the market turns. Companies such as Daewoo and Samsung have no desire to become major shipbuilders if it means losing a lot of money.

Meanwhile, the Government is doing what it can to help. It has improved terms for export credit from 75 per cent to 85 per cent. Repayment periods are usually between five and 10 years and interest rates in line with the international level for the industry at 7 to 8 per cent. There are also plans to subsidise the price of steel plate, the industry's main raw material.

Under the terms of the fourth shipbuilding promotion plan for 1979-80, recently announced, \$254m is to be made available to finance this policy and the Government expects this to result in orders for 213,497 grt of vessels, of which 186,000 grt will be ocean-going types. Under the plan, Hyundai expects to get 11 vessels totalling 133,590, KSEC two at 34,584 and Samsung three small vessels totalling 6,050 grt. The rest will go to the country's six medium-sized yards (headed by Daedoo and DooShae) and its 111 small yards.

Another target is to increase the localisation ratio of ship construction materials from its present level of not much more than 50 per cent to 80 per cent by 1981. The recent opening of Hyundai's marine engine plant will be a big contributing factor in this process.

There is one other important factor working in favour of South Korea's shipyards—the growth of the country's own merchant navy.

As the table shows, this has expanded steadily and is expected to reach 6m grt by 1984—roughly the size of the fleet now registered in Sweden. South Korea has a strong force of merchant seamen—34,000 men—of whom only half now serve on Korean vessels.

Although South Korean shipping companies, like those in many other countries, got into widespread financial difficulties last year, necessitating an \$80m Government injection to finance debt re-scheduling, the Government is confident that by rationalising the 71 ocean-going shipping lines and by carefully financing expansion of the companies' container-shipping fleet, the industry will have a secure base for the future.

South Korean vessels already carry more than 45 per cent of the country's total seaborne trade, but the share for liner cargoes is only about 10 per cent, which resulted in a head-on clash between South Korea and the Far East Freight Conference last year when the conference refused to allow Choyung to join Korea Shipping Corporation in its membership.

Eventually, the Koreans won and Government plans call for the ordering of another three container ships this year to take the national fleet to the size necessary for a 40 per cent liner trades share by 1981.

At the end of 1978, Korea had 42 container-carrying vessels (full or part-container) totalling 169,000 grt. The fleet is also comparatively old, with 20 per cent of the 497 vessels over 45 years old, which should also produce more business for the Korean shipyards, where owners are financially induced to build at least one third of their requirements.

HANYANG TEAMWORK BUILDS IT BETTER

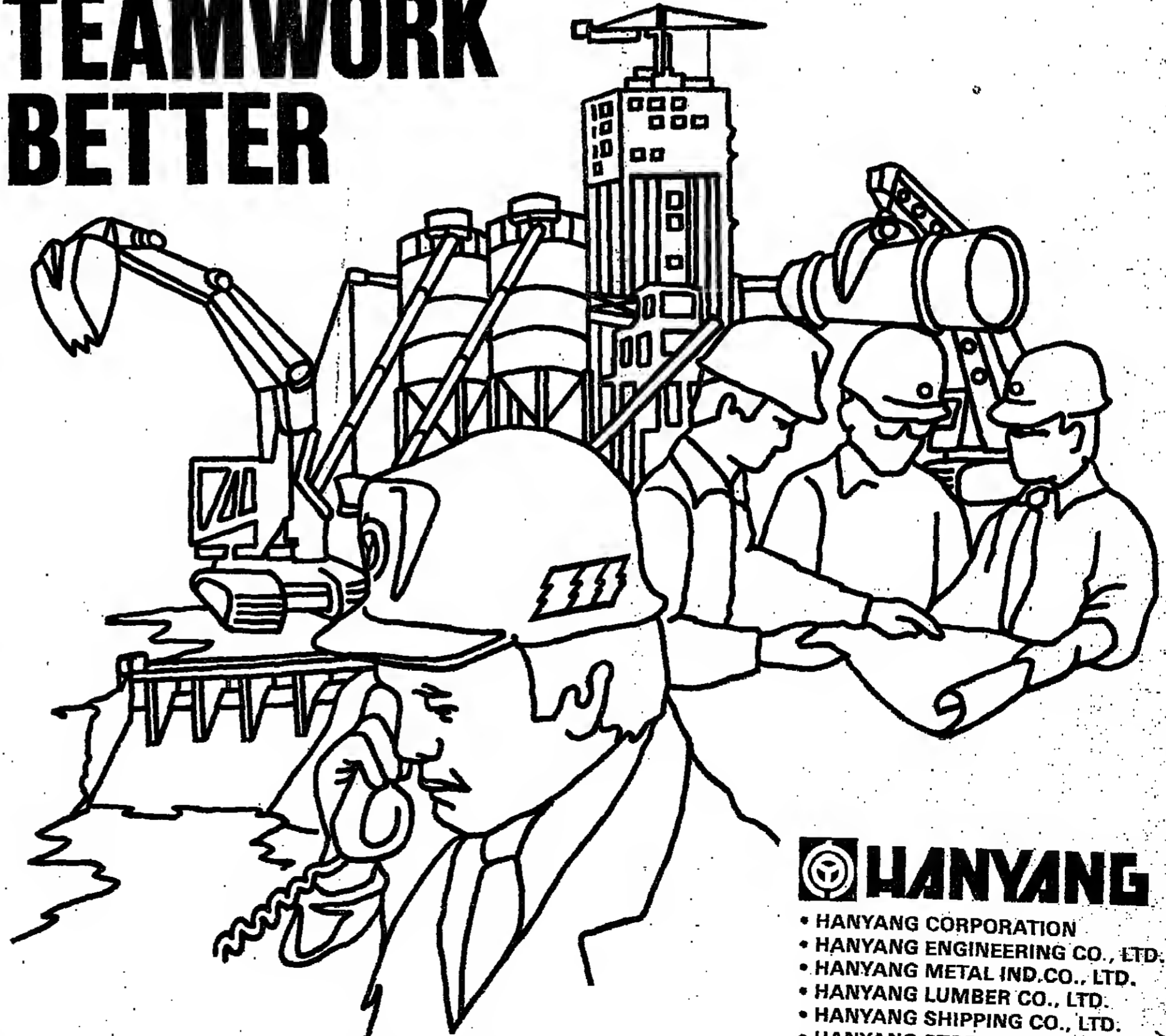
Hanyang teamwork guarantees you the very best in everything that a general contractor can provide — in housing and construction, in engineering, in civil works projects, in electrical and mechanical projects, in environmental protection, in shipping and in a wide range of other programs. The six member companies of the Hanyang Group coordinate efforts in a way you've probably never seen done before.

Large scale housing projects throughout Korea and the Middle East testify to what Hanyang teamwork can provide for you in amazingly expert, economical, speedy and efficient production and construction.

So look into Hanyang and see how far a lot of teamwork effort can go for you.



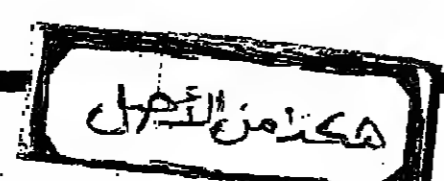
Young-Dong Apartment Complex in Seoul, Korea, constructed by Hanyang, with a view of bridge under construction.



HANYANG

- HANYANG CORPORATION
- HANYANG ENGINEERING CO., LTD.
- HANYANG METAL IND. CO., LTD.
- HANYANG LUMBER CO., LTD.
- HANYANG SHIPPING CO., LTD.
- HANYANG STORES CO., LTD.

HEAD OFFICE: C.P.O. BOX 6102, SEUL, KOREA. TEL: HYCON K2642, 23685. KUWAIT BRANCH: TEL HANYANG 30/2KT. RIYADH BRANCH: TEL 20006 HYRUH SJ. JEDDAH BRANCH: TEL 501022 HARETH SJ. DAMMAM BRANCH: TEL 601105 DHOTEL SJ. LONDON BRANCH: TEL 298333 HANYANG. NEW YORK BRANCH: TEL RCA 236513 HY NY LR. ABU DHABI OFFICE: TEL 3475 HYAUHEM



Grievances in the public service: By Phillip Bassett

Why civil servants strike

THE STRIKE of 530,000 white-collar civil servants called for today underlines a major handicap facing the British Government in the run-up to the General Election...

workers traditionally associated with loyalty and ineffectual trade unionism rather than militancy is embarrassing enough for the Government.

Further embarrassment arises from the fact that the civil servants are pressing for pay comparability, the principle that has been used to pacify groups such as the local authority and health service manual workers...

above average pay increase of 5.4 per cent, compared with the 3.12 per cent increase in the 1977-78 Civil Service pay increase...

correct pay policy anomalies, the proportion fell sharply to 7.4 per cent in 1978. The Callaghan Government's series of pay restrictions has reversed the trend...

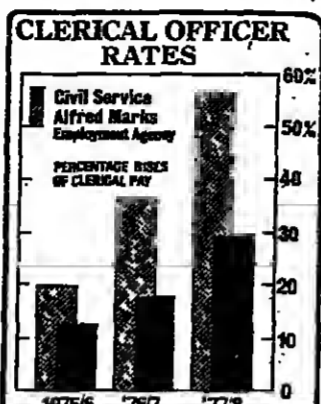


An unusual view of Whitehall, headquarters of a restive British Civil Service.

In meetings at the end of last week Ministers thought they had all but reached a pay settlement with the majority of the civil servants unions by managing to isolate the two largest unions...

Private sector

Both unions and Ministers admit that some grades of civil servant can expect little or nothing extra as a result of comparability studies...



Permanent Secretary are not covered by the system at all, but are examined by the Top Salaries Review Board.

Long term

A speedy settlement is in doubt because of some aspects of the offer and the way it has been made.

Senior administration staff, about 6,200 up to the rank of Assistant Secretary, would receive rises of 40-50 per cent.

Reports on the PRU findings are passed to the Civil Service Department and the unions, and an elaborate system of evaluation takes place.

Unprecedented

The Government's original offer, tabled a week ago, of 7 per cent stirred even those moderate unions which had been holding back from action into anger.

Letters to the Editor

Buying on tick

From Lord Balogh. Sir—Samuel Brittan (March 29) ridicules the economists who pay attention to the current balance of payments...

Problem solved

From Mr. J.C. Koeune. Sir—Hasn't the 'unsolved theoretical problem' that Samuel Brittan uncovered on March 8—'Hopes, risks and a bit of theology'—already been raised and solved by Professor Robert Mundell?

Landlord and tenant

From the Press Officer. Small Landlords' Association. Sir—On March 26 "Justina" rehearsed the sad story of the council tenant who lost his right to purchase his council house...

Reinstatement value

From Mr. P. Jones. Sir—The judgment in Lepard v The Excess Insurance Company on February 23, reported in The Solicitors Journal of March 16, raises the unfair position that thousands of consumers are in vis a vis their household insurance.

Paying the piper

From Mr. J. Towler. Sir—It is to be hoped that John Cherrington's sensible stance towards the Common Agricultural Policy (Lombard, March 27) and the European Economic Community will rub off on to the Conservative Party.

Gambling and hedging

From the Managing Director, Commodity Analysis. Sir—Mr. A. H. Hermann—your Legal Correspondent—in his otherwise excellent article on commodity dealing under the heading 'Business and the Courts' (March 29) appears to have made some erroneous statements based on a misunderstanding of the difference between 'futures' and 'forward physical contracts'...

Civil Service pensions

From the Managing Director, House Information Services. Sir—Civil Servants, in rejecting the Government's pay offer, keep very quiet about their indexed pensions which we all know will ruin the nation eventually.

Balanced views

From the Managing Director, Executive Search. Sir—During the damaging strikes we have suffered over the past few months, the trade union viewpoint has been thrust at us in the media by members of the TUC, trade union leaders, shop stewards and even picket strikers...

Today's Events

GENERAL Mrs. Shirley Williams, Education Minister, speaks at Association of Professional, Executive, Clerical and Computer Staffs conference, Blackpool.

Today's Events

FINAL FEBRUARY FIGURES Final February figures for retail sales, hire purchase and other instalment credit business for February, published by DEPARTMENT OF TRADE.

Today's Events

HOUSE OF COMMONS: House of Lords, Industry Bill (Money), third reading; Nurses, Midwives and Health Visitors Bill, third reading; Banking Bill, remaining stages; Estate Agents Bill, remaining stages; Independent Broadcasting Authority Bill, second reading; Air Navigation Order; Carriage by Air Order; Select Committee: Expenditure, Education, Arts and Home Office Sub-committee; Subject: Women and Penal System; Witnesses: Baroness Vickers and representatives of PROS, ECP and PLAN, Room 6, 4.15 pm.

Advertisement for Knight Frank & Rutley. Text: 'You've made a great deal of your property for years but... We will make that property portfolio really work for you... We expose the hidden growth potential... We value, manage and constantly monitor performance... We realise potential by selling, by redevelopment or by lease renegotiation... We challenge your rating assessment... We will upgrade the overall quality of your property holding... Knight Frank & Rutley. Probably the most diversified property service in the world.'

UK COMPANY NEWS

MINING NEWS

BIDS AND DEALS

Companies and Markets

Stronger second half lifts Laird to £11.12m—pays maximum dividend

A SECOND half profit of £8.29m against £5.08m lifted Laird Group to a record £11.12m pre-tax for the 1978 year compared with £9.09m last time.

BOARD MEETINGS

The following companies have notified dates of board meetings to the Stock Exchange. Such meetings are usually held for the purpose of considering dividends.

Upsurge at A.B. Electronic

On sales ahead from £8.5m to £10.96m pre-tax profits of A.B. Electronic Products Group surged from £154,825 to £380,512 in the six months to December 31, 1978.

Japanese funds for Nabarlek

BY KENNETH MARSTON, MINING EDITOR

WORK at Nabarlek, which is to be the first of Australia's major uranium deposits in the Northern Territory to be brought to production, is to get under way in May-June now that Queensland Mines has arranged financing of the project with its Japanese customers.

ROUND-UP

Wankin Colliery, the Rhodesian coal producer in the Anglo American group, maintained its interim dividend at 3 cents (2.1p) for the year to August 1978. Total payments for 1977-78 were 9 cents.

UMAL EXPECTS A BETTER YEAR

This year should be "acceptably good" for both Utah Mining Australia (UMAL) and its 10.8 per cent-owned Utah Development.

Goode Durrant sees increase

A PREDICTION that Goode Durrant and Murray Group, the international finance concern, will do better than the £900,000 pre-tax profit in the year to October 31, 1978, is made by Mr. Lionel Robinson, the chairman, in his annual statement.

KENNING MOTOR

Kenning announces that 558,212 ordinary shares of 25p each have been issued pursuant to the conversion of £391,448 8 per cent convertible unsecured loan stock 1989/94.

PRUDENTIAL ASSURANCE

In our report of Prudential's latest bonus rates (March 30), the rate for personal pension plans in force for 22 years was incorrectly stated as 5565.

Vantona expenditure plans

A corporate plan covering the next three years has recently been completed by individual management of the Vantona Group. Mr. James Spooner, the chairman, says in his annual report.

Piran ginger group considers legal action

BY JAMES BARTHOLOMEW

THE DISSIDENT shareholders of Saint Piran Ltd have succeeded in ousting the current board from the EGM last Friday if certain proxies cast on the boards side had been discounted as invalid.

W. E. NORTON BUYS SITE

W. E. Norton (Holdings) has completed the purchase of a freehold property and development land comprising industrial premises at Haddenham, Aylesbury, Buckinghamshire.

MARLEY IN BRAZIL

Marley has increased its holding in Fademac Brazil from 36 per cent to 49 per cent after Etienne de Belgium as the joint partner.

THOMAS WITTER AND COMPANY, LIMITED

Manufacturers of Smooth-surfaced Floor Coverings, Broadloom Carpets, Bituminised Roofing Felts, Asbestos Felts, Packaging Board, etc.

RESULTS REACH RECORD LEVELS

The 51st Annual General Meeting of Thomas Witter and Company, Limited was held on 30th March at Chorley. The following are extracts from the circulated statement of the Chairman, Mr. H. Bowser.

LOCAL AUTHORITY BOND TABLE

Table with columns: Authority, Annual Interest, Life, £ Year. Includes Knowsley, Redbridge, Sefton, Wrekin.

FINANCE FOR INDUSTRY TERM DEPOSITS

Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid gross, half-yearly. Rates for deposits received not later than 12.4.79.

VOSPER LIMITED Financial results for the year 31st October 1978

Table with columns: 1978, 1977. Rows: Turnover, Trading Profit, Nationalised companies, Profit before Tax, etc.

- * Turnover up by 32%
* Trading profit up by 30%
* Record profit by Vosper—Singapore
* Extraordinary item—reorganisation costs in associated company
* Nationalisation compensation—still no agreement

THE LAIRD GROUP LIMITED

Results 1978

Table with columns: Year to 31 December 1978, Year to 31 December 1977. Rows: Turnover, Profit before Tax, Tax, Profit after Tax, etc.

Notes

- 1. As forecast, a final dividend of 1.522p net is recommended. This makes a total dividend for the year of 2.982p net, the maximum permitted increase over the 1977 dividend of 2.664p net (adjusted for last year's capitalisation). A one for ten capitalisation issue is again proposed.

NOTICE TO HOLDERS OF MITSUI REAL ESTATE DEVELOPMENT CO., LTD. (DAIICHI FUDON KABUSHIKI KAISHA)

THE SCOTTISH EASTERN INVESTMENT TRUST LIMITED

The Fifty-fourth Annual General Meeting of The Scottish Eastern Investment Trust Limited will be held on Monday, 23rd April 1979 at the offices of the Company, 29 Charlotte Square, Edinburgh.

REVENUE The Revenue as shown in the Accounts increased from £1,442,098 to £5,085,823 and after charging interest on borrowed money, management expenses and taxation, the revenue available for distribution amounts to £2,778,443 compared with £2,339,348 previously.

Table with columns: Year ended 31st January 1979, 1978. Rows: Total Revenue, Earned per Ordinary Share, Paid per Ordinary Share, etc.

Edinburgh 19th March 1979

COMPANIES and Markets INTNL. COMPANIES and FINANCE PENDING DIVIDENDS RECENT ISSUES

Ahold seeking further acquisitions overseas

By CHARLES BATCHELOR in AMSTERDAM

AHOLD, HOLLAND'S largest supermarket chain, expects it will be difficult to maintain net profit margins in 1979. After a period of strong expansion the Dutch retail trade must now accept more moderate rates of growth and more effort will go into improving internal management, logistics and marketing.

Texaco sets life rules on foreign inventories

By David Lascales in New York

TEXACO, the third largest U.S. oil company, has extended last in first out (LIFO) accounting to its foreign inventories since the beginning of this year, the company announced at the end of last week.

For the convenience of readers the dates when some of the more important company dividend statements may be expected in the next few weeks are given in the following table.

Table with columns: Company Name, Dividend Type, Date, Amount, etc. Includes companies like Agood, Alcatel, Amstar, etc.

EQUITIES

Table with columns: Issue Price, High, Low, Stock, etc. Includes companies like Appl. Computer, Hunting Assoc. etc.

FIXED INTEREST STOCKS

Table with columns: Issue Price, High, Low, Stock, etc. Includes companies like Chesapeake Power, Cleveland County etc.

"RIGHTS" OFFERS

Table with columns: Issue Price, High, Low, Stock, etc. Includes companies like Brammer (H.), Bureau Dean, etc.

Renunciation dates usually last day for dealing in stamp duty. Figures based on prospectus estimates. F Assumed dividend and yield. A Forecast dividend; cover based on previous year's earnings.

Sluggish year for Advertiser Newspapers

By Our Sydney Correspondent

ADVERTISER Newspapers, the media printing and packaging group, was held by its media activities to a profit increase in 1978 of only 6.5 per cent.

Scrip issue from BHP

By JAMES FORTH in SYDNEY

AUSTRALIA'S largest company Broken Hill Proprietary (BHP), has announced a one-for-five scrip issue—its first handout to shareholders since 1974.

Cont. American has Canada bid

NEW YORK — Imperial Life Assurance of Canada plans to make a tender offer for Continental American Life Insurance for \$33 a share.

The proposed offer would be conditioned upon Imperial receiving at least 494,027 shares of Continental American, 50.1 per cent of the total shares outstanding or issuable, subject to stock options, it said.

CLIVE INVESTMENTS LIMITED

Table with columns: Investment Type, Amount, etc. Includes Royal Exchange, Clive Fixed Interest Capital, etc.

BASE LENDING RATES

Table with columns: Bank Name, Rate, etc. Includes A.B.N. Bank, Allied Irish Bank, etc.

CURRENCIES, MONEY and GOLD

Sterling and the EMS

By COLIN MILLHAM

Sterling, the only Common Market currency outside the European Monetary System, was the cause of more problems last week than any of the currencies actually embraced by the system.

Avco profits move up

By OUR SYDNEY CORRESPONDENT

AVCO FINANCIAL Services, one of Australia's leading shop front financiers, lifted its profit by 9 per cent, from A\$10.3m to A\$11.2m (U.S.\$12.5m) in the year to November 30.

GOLD

Table with columns: Date, Price, etc. Includes Gold Bullion (fine ounce), Gold Coins, etc.

OTHER MARKETS

Table with columns: Country, Price, etc. Includes Argentina Peso, Australia Dollar, Brazil Cruzeiro, etc.

THE DOLLAR SPOT AND FORWARD

Table with columns: Date, Price, etc. Includes UK, Ireland, Canada, etc.

THE POUND SPOT AND FORWARD

Table with columns: Date, Price, etc. Includes March 30, Day's spread, etc.

EXCHANGE CROSS RATES

Table with columns: Currency, Rate, etc. Includes Pound Sterling, Deutschmark, Japanese Yen, etc.

MONEY RATES

Table with columns: Location, Rate, etc. Includes New York, Germany, France, Japan, etc.

LONDON MONEY RATES

Table with columns: Term, Rate, etc. Includes 1 day notice, 7 days notice, 1 month, etc.

DISCOUNT RATES

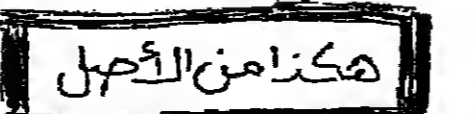
Table with columns: Term, Rate, etc. Includes 1 month, 3 months, 6 months, etc.

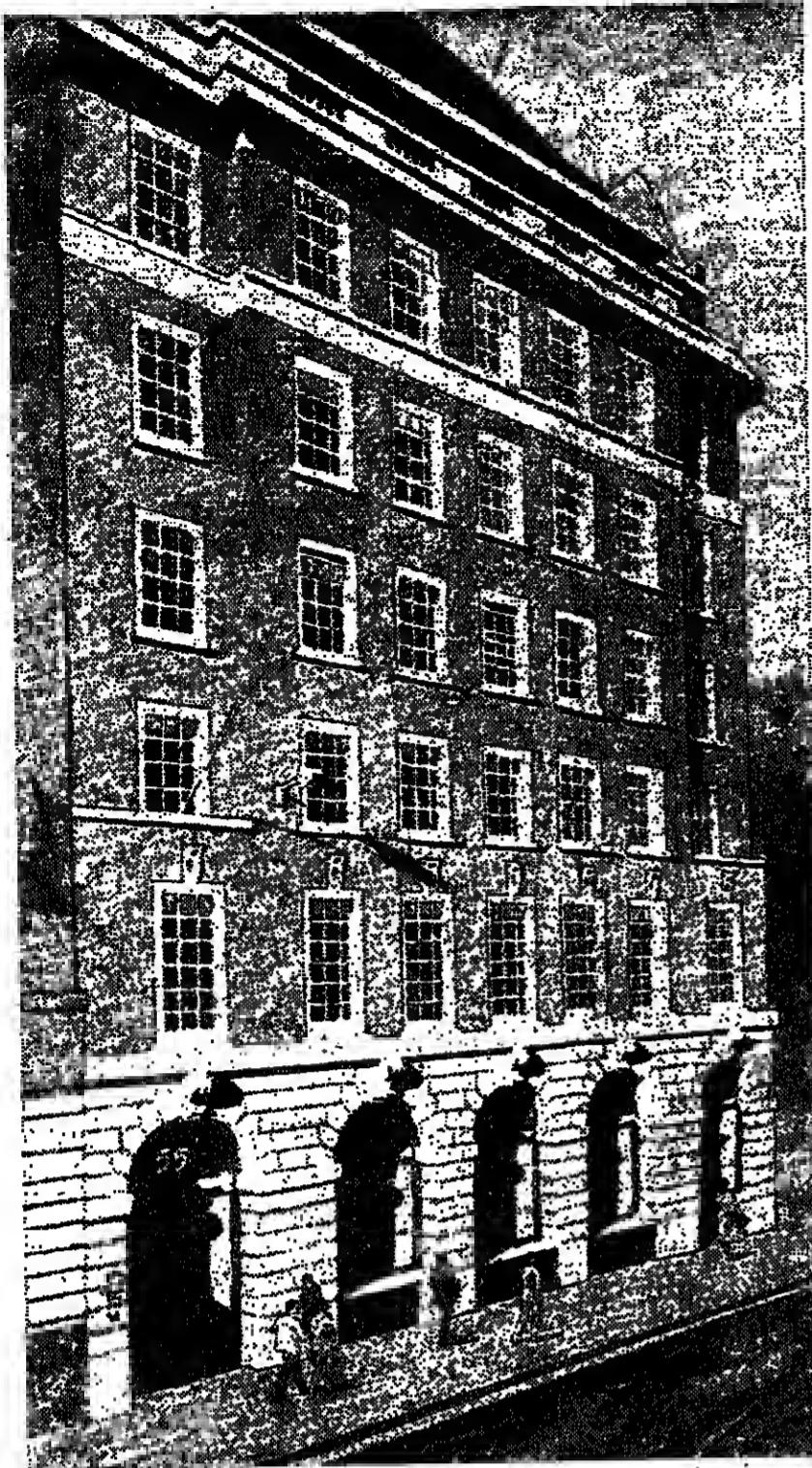


Higher Profits 1978 Group profits increased by 24% to £274 million. Dividends Rise Final dividend of 2.84 pence per share recommended, making a total of 4.21 pence for 1978, up 13.2%. Dividend cover 1.35 times.

Hongkong Land

1889-1979





On April 2nd Canadian Imperial Bank of Commerce is moving to 55 Bishopsgate London E.C.2.

The move of our City Branch from 2 Lombard St and the European Operations Office from 42 Moorgate to new premises in Bishopsgate is yet another indication of the continuing growth of Canadian Imperial Bank of Commerce as a major force in world banking and finance.



CANADIAN IMPERIAL BANK OF COMMERCE

55 Bishopsgate, London EC2N 3NN. Telephone 01-626 9858. Telex 888229. Cable CANIMP London E.C.2.

The week in Parliament

TODAY
COMMONS: Proceedings on the Representation of the People Bill. Completion of Remaining Stages of the Arbitration Bill (Lords), the Crown Agents Bill and of the Consents to Prosecutions Bill and proceedings on the Pneumococcosis Etc. (Workers' Compensation) Bill. **LORDS:** Industry Bill (Money) third reading. Nurses, Midwives and Health Visitors Bill, third reading. Banklog Bill, remaining stages. Estate Agents Bill, remaining stages. Motions to approve the White Fish subsidy (Deep-Sea Vessels) (Specified Ports) Scheme, 1978. Air Navigation (Noise Certification) Order 1978. Carriage by Air Acts (Application of Provisions) (Second Amendment) Order 1978. Credit Unions Bill, second reading.

SELECT COMMITTEE: Expenditure, Arts and Home Office Sub-Committee. Subject: Women and the Penal System.

TOMORROW
COMMONS: Proceedings on the Finance Bill and on the Consolidated Fund (Appropriation) Bill. Completion of remaining stages of the Weights and Measures Bill, the Leasehold Reform Bill and Carriage by Air and Road Bill (Lords).

WEDNESDAY
COMMONS: Banking Bill, consideration of Lords amendments. Nurses, Midwives and Health Visitors Bill. Lords amendments. Estate Agents Bill. Lords amendments. Proceedings on the Ancient Monuments Bill (Lords) and on three consolidation measures, the Exchange Equalisation Account Bill (Lords), the International Monetary Fund Bill (Lords) and the Prosecution of Offences Bill (Lords).

LORDS: Motion to approve Immersat (Immunities and Privileges) Order 1978. Consolidated Fund (Appropriation) Bill, Finance Bill, Weights and Measures Bill and Leasehold Reform Bill, all stages. Crown Agents Bill, Consents to Prosecutions Bill and the Pneumococcosis Etc. (Workers' Compensation) Bill, remaining stages.

Royal Assent will be given to all outstanding Acts and Parliament will then be prorogued prior to dissolution on Saturday, April 7.

BUSINESSMAN'S DIARY

Date	Title	Venue
Current	London Fashion Exhibition (01-385 1200) (until April 5)	Olympia
Current	The Scottish Hotel, Catering and Licensed Trade Exhibition (031 229 6412) (until April 6)	Kelvin Hall, Glasgow
Current	International Engineering Inspection and Quality Control Exhibition (01-300 3200) (until April 6)	Exbn. Centre, Birmingham
Apr. 3-6	Leatherwear International (01-385 1200)	Olympia
Apr. 3-5	Computermarket '79 (01-935 4986)	Bloomsbury Centre Htl. WCI
Apr. 3-6	OCCA Technical Exhibition (01-608 1086)	Alexandra Palace
Apr. 5-8	Tipping Vehicle Exhibition (061-834 7648)	Exbn. Centre, Harrogate
Apr. 6-17	Birmingham Motor Show 4 (0602 51202)	Bingley Hall
Apr. 9-14	Ideal Homes Exhibition (031 225 9657)	Assembly Rooms, Edinburgh
Apr. 18-21	National Food Services (01-686 7181)	Grosvenor House, W1

OVERSEAS TRADE FAIRS AND EXHIBITIONS

Date	Title	Venue
Current	Travel and Holiday Fair '79 (01-486 1951) (until April 8)	Helsinki
Current	Europain '79 (01-639 3964) (until April 9)	Paris
Current	Toys and Games Trade Show-BELJOUEYS (until April 8)	Brussels
Apr. 5-8	International Coffee Exhibition	Geneva
Apr. 8-10	MODEXPO-International Ladies' Fashion Fair	Zurich
Apr. 14-23	International Trade Fair	Milan
Apr. 19-25	International Book Fair	Jerusalem
Apr. 20-29	International Household Fair	Amsterdam
Apr. 21-29	AGRO '79-Northern Agricultural Fair	Braga

BUSINESS AND MANAGEMENT CONFERENCES

Date	Title	Venue
Current	Management Centre Europe: Management Course (until Apr. 6)	London
Current	IPM: Industrial Relations Law: The impact of current legislation (01-387 2844) (until June 7)	Upper Woburn Place, WCI
Current	BTSC: Senior Management Course (04882 5444) (until April 28)	Woking, Surrey
Apr. 2	AMR International: Interviewing Skills and Techniques for Executives (01-282 2732)	Royal Garden Hotel, W8
Apr. 2	ESC: Important Developments in the Protection of Industrial Designs (087 282 2711)	Hilton Hotel, W1
Apr. 3-4	ASM: Managing and Controlling R and D projects (01-385 1992)	RAC Club, SW1
Apr. 2-4	MSS Computer and Business Consultancy: Effective Marketing and Selling (0908 34755)	Worthing
Apr. 2-6	Frank Jenkins: Export PR/Planned Press Relations (01-587 2511)	Connaught Rooms, WC2
Apr. 3	Executive Conferences: Justifying and Selecting Automatic Test Equipment (0494 33171)	Hotel Russell, WC2
Apr. 3-5	Energy Utilisation and Conservation Conference (01-637 2400)	Royal Lancaster Hotel, W2
Apr. 3	NTIS: Information Services (0420 84300)	American Embassy
Apr. 3	Kvaliteitsdienst-KDI: Effective Material Utilisation (01-222 6362)	Hilton Hotel, Rotterdam
Apr. 3-6	BAGIE: Training Design (01-636 5351)	Regent's Park, W1
Apr. 4	The Spring Research and Manufacturers' Association: Health and Safety in the Spring Industry (0742 760771)	Europa Lodge Htl., W. Brom.
Apr. 4-5	Graham and Trotman: Saudi Arabia and Egypt: Current and Future Business Opportunities (01-493 6351)	Cafe Royal, W1
Apr. 4-6	BHRA: Institution of Chemical Engineers: Mixing (0234 750422)	University of York
Apr. 4-6	ISBA: World Industrial Advertising Congress (01-222 6362)	Amsterdam
Apr. 4-6	International Insurance Conference (01-222 6362)	Plaza Hotel, Frankfurt
Apr. 4-6	Assoc. of Offshore Diving Contractors: Underwater Engineering Symposium (01-549 5831)	University of Aberdeen
Apr. 6	Oyez-IBC: Damages for Personal Injury and Death (01-242 2451)	Royal Lancaster Hotel, W2
Apr. 9	The 48 Group: Trends in British Trade with China (0772 61581)	Guild Hall, Preston
Apr. 10	AGB: Trade Union Recognition—the options (01-353 3851)	London Press Centre
Apr. 10	The Institution of Mechanical Engineers: Power from Coal (01-222 7889)	Birdcage Walk, SW1
Apr. 11	ECG: Conference on Libya (01-248 4444)	Cannyn Street, EC4
Apr. 11	The Henley Centre for Forecasting: The Budget (01-236 3011)	Carlton Tower Hotel, SW1
Apr. 11	BAMA: Achieving production efficiency (0703 842765)	Kensington Close Hotel, W8
Apr. 14-21	CBA/John Ridgway: Training Course (01-720 7711)	Ardmore
Apr. 18-19	IMPI/AMEDA: Microwave—a Cooking Revolution (0852 411001)	London, W8
Apr. 18	AGB: Executive Secretary (01-353 3651)	Charing Cross Hotel, WC2
Apr. 18-20	Eurotech Management Development Service: Be a More Effective and Persuasive Communicator (0252 313066)	Cafe Royal, W1
Apr. 19	AGB: Essentials of Employment Law (01-353 3651)	Cafe Royal, W1
Apr. 19-20	FT Conference: South East Asian Banking and Finance (01-239 5229)	Singapore
Apr. 19-20	MSS Computer and Business Consultancy: Manufacturing/Production Control Concepts (Worthing 34755)	Worthing
Apr. 19-20	Malaysian Investment Centre: Assisting UK Businessmen in the Expansion of Trade and Investment Opportunities in Malaysia (01-493 0516)	Piccadilly Hotel, Manchester
Apr. 20-23	IPM: Current and Future Developments in Pay Policy and Industrial Relations Practice (0865 734222)	Kennington, Oxford

Protected Eagles No. 1

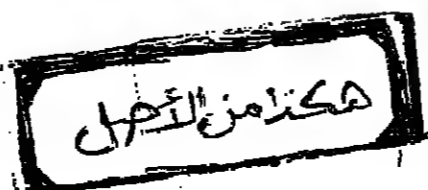
White Tailed Sea Eagle

Extinct in the United Kingdom by 1916. Re-introduced in 1977. Main habitats Scandinavia and Asia. Fourth largest eagle in the world, with a wing span of 7-8 feet. Like all eagles it is a protected bird.



With 160 U.K. branches you can rely on our countrywide insurance service for your protection. Millions do. Ask your broker or call in at your nearest branch.

Eagle Star Insurance



"Notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales."

Sir Bernard Scott, Chairman.

RESULTS
 Turnover for the six months was £510m, an increase of £48m. The Lucas share of Associated Companies' (all overseas) turnover was a further £61m giving a total turnover of £571m which is £64m higher than the previous year. Sales in Europe increased by 21% and those in the US by 43%. Direct exports from the UK were up by 24% to a record level of £86m.
 Profits before tax for the six months at £24m were disappointing and this was due to the poor performance of the UK market. During the whole of the first half of the financial year there has been a series of disruptions to production and sales caused by the wide-ranging problems both within the industry and elsewhere. Thus the UK production of vehicles showed a decline of no less than 18% on the previous year. An additional

factor that reduced profit was our considerable spending on new projects not yet on stream but which will make an important contribution in the future. Outside the UK our companies in Europe and other overseas areas performed well and increased their profits by 28%.

PROSPECTS
 The outcome will depend materially on the industrial climate prevailing in the UK for the remainder of the year. Steady and sustained production is essential to restore the profitability of our domestic business to a satisfactory level. However, notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales. Our prospects are good and market penetration continues to increase.

1979 Interim Results at a glance:

	Half-year to 31.1.79 £ million	Half-year to 31.1.78 £ million	Year to 31.7.78 £ million
Sales to outside customers	510.14	462.39	971.17
Surplus on trading	26.87	30.34	77.91
Profit before taxation	24.09	27.61	73.05
Earnings per ordinary share	18.89p	22.99p	59.89p
Dividend per ordinary share	2.57p	2.33p	9.18p

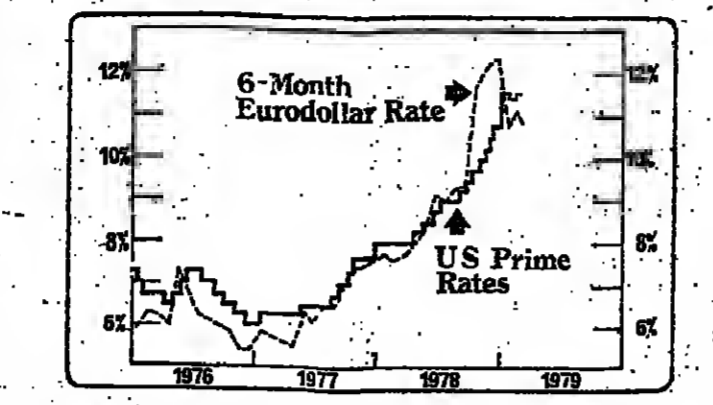
INTERNATIONAL CAPITAL MARKETS

BY FRANCIS GHILES

The Canadian dollar comeback

ANOTHER sterling week for the prices of sterling bonds and of dollar bonds convertible into British equities...

such a "quasi-tap" issue was arranged in September 1977, by Orion Bank...



Hungary is to borrow \$100m by way of a syndicated loan paying 1 1/2% above U.S. prime rate...

per cent. The big three Swiss banks decided to freeze the issue of subsequent Japanese convertibles...

The deterioration of the Swiss bond market forced Banque Keyser Ullmann en Suisse to announce a coupon of 5 per cent on the SwFr 40m 10-year public issue...

In the sterling sector gains of up to 31 points were registered on the week. The recent issue for FFI closed at 103 on Friday...

In the French franc sector the FFf 125m bond for Solvay was priced at par and a half. It was four times oversubscribed.

CURRENT INTERNATIONAL BOND ISSUES

Table with columns: Borrower, Amount, Maturity, Coupon, Price, Lead manager, Offer yield. Lists various international bond issues from U.S. Dollars to Yen.

INTERNATIONAL LOANS

BY MARY CAMPBELL

An impressive digest from the BIS

THANKS to the Bank for International Settlements (BIS), it is now at last possible to make sensible estimates of individual country's debts without resorting to a statistical niceties first...

Second, it explains the scope and limitations of the information available for their own purposes but which is not publicly available...

U.S. BONDS

BY STEWART FLEMING

Facing up to indices

THE NEW YORK bond market is facing some difficult tests over the next few days as investors try to assess the implications of the confrontation in the trucking industry...

will, according to official forecasts, be unable to meet its obligations. These include payment of some \$7bn of social security cheques. Last week the Treasury stopped selling savings bonds...

FT INTERNATIONAL BOND SERVICE

Table of U.S. Dollar Straights, Deutsche Mark Straights, and Swiss Franc Straights with columns for Issued, Bid, Offer, Change on day, and Yield.

Table of YEN Straights, OTHER Straights, and CONVERTIBLE bonds with columns for Issued, Bid, Offer, Change on day, and Yield.

Advertisement for U.S. \$25,000,000 UNITED OVERSEAS BANK LIMITED, featuring floating rate notes due 1989 and listing various international branches.

Questions begged by compulsory liability

BY OUR INSURANCE CORRESPONDENT

WE ARE now in the eighth year of compulsory employers' liability insurance and 99 smoothly have the compulsory laws applied by the insurance market that the only visible evidence of change has been the displays on office and factory noticeboards of current statutory certificates of insurance.

It is trite to say that the employer must have cover to ensure employees receive compensation for any injury or illness caused in the course of their work as the result of the employer's negligence. This provokes the questions: "Who is an employer?" and "which employees have to be protected by law?"

The 1969 Act defines an employer as "an individual who has entered into or works under a contract of service or apprenticeship with an employer..."

The number of people who might be called "quasi-employees" and whose rights to compensation for work accidents may be insured for convenience under employers' liability policies is increasing.

Last Friday's Financial Times report described how GEC at Manchester is running, in conjunction with the Manpower Services Commission, fortnightly employment induction courses, each for up to a dozen young unemployed people.

With much of the time is taken up with classroom exercises, lectures and visits round the factory, on several days...

The Manpower Services Commission is concerned with two kinds of scheme for young unemployed.

In the first, the Youth Opportunities Programme, is to provide some youngsters with a practical introduction to working life.

In the second, the Special Temporary Employment Programme which provides temporary jobs in areas of unemployment, the worker becomes a legal employee.

An undertaking

Insurers have now given an undertaking that any young person involved in either scheme will be treated as an employee, not just for the purposes of employers' liability insurance but for public liability insurance as well.

During their final school year some pupils undertake a few weeks unpaid work to find out whether their chosen employment is suitable.

Insurers are prepared to treat these pupils as employees, for the purposes of both employers' and public liability insurance, but only if the policy holder concerned informs insurers in advance and, in due course, includes in his wage return an appropriate notional amount of earnings for each pupil.

Public Works Loan Board rates

Effective from March 24

Table with columns: Years, Quoted loans repaid, Non-quoted loans A* repaid, At maturity, At maturity.

* Non-quoted loans B are 1 per cent higher in each case than non-quoted loans A. Equal instalments of principal, 5% repayment by 2009.

General manager for National Benzole

Mr. John M. Sperring has been made director and general manager of NATIONAL BENZOLE COMPANY from today.

Mr. P. C. Williams has been appointed chairman and continues as general managing director of G. E. WALLIS AND SONS.

Mr. R. A. E. Baird has been appointed a director, and Mr. A. R. Deacon a director of County Bank, has joined the Board as a non-executive director.

Mr. Bernard G. Lewis, chief executive of Kumpulan Guthrie SDN BHD...

Mr. Robert D. Wade has become group managing director of LEEDS AND DISTRICT DYERS AND FINISHERS.

Mr. Adrian Rappazini has joined P. J. REESONS AND CO. to establish and manage the bank's corporate finance department.

Mr. A. C. Barker has been appointed a director of the BANKERS' INVESTMENT TRUST from April 3.

Mr. R. R. Annesley and Mr. C. J. Wakefield have been appointed executive directors of GREENGARDEN INVESTMENTS.

Mr. Peter C. Palmieri has been elected executive vice-president and manager of IRVING TRUST COMPANY's international banking group.

Mr. Richard Farhad has been appointed director of HAYES MILL with responsibility for controlling internal sales.

Mr. Peter C. Palmieri has been elected executive vice-president and manager of IRVING TRUST COMPANY's international banking group.

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Indices

NEW YORK - DOW JONES

Table with columns: Mar. 30, Mar. 29, Mar. 28, Mar. 27, Mar. 26, Mar. 25, Mar. 24, Mar. 23, Mar. 22, Mar. 21, Mar. 20, Mar. 19, Mar. 18, Mar. 17, Mar. 16, Mar. 15, Mar. 14, Mar. 13, Mar. 12, Mar. 11, Mar. 10, Mar. 9, Mar. 8, Mar. 7, Mar. 6, Mar. 5, Mar. 4, Mar. 3, Mar. 2, Mar. 1, 1978-79, Since Comp'n't'n.

STANDARD AND POORS

Table with columns: Mar. 30, Mar. 29, Mar. 28, Mar. 27, Mar. 26, Mar. 25, Mar. 24, Mar. 23, Mar. 22, Mar. 21, Mar. 20, Mar. 19, Mar. 18, Mar. 17, Mar. 16, Mar. 15, Mar. 14, Mar. 13, Mar. 12, Mar. 11, Mar. 10, Mar. 9, Mar. 8, Mar. 7, Mar. 6, Mar. 5, Mar. 4, Mar. 3, Mar. 2, Mar. 1, 1978-79, Since Comp'n't'n.

EUROPE

AMSTERDAM

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

BRUSSELS/LUXEMBOURG

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

COPENHAGEN

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

VIENNA

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

GERMANY

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

CANADA

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

MILAN

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

OSLO

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

PARIS

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

STOCKHOLM

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

SWITZERLAND

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

AUSTRALIA

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

JOHANNESBURG

Table with columns: Mar. 30, Price, + or -, Div. Yld. %.

WALL STREET

NEW YORK

Table with columns: 1978-79 High, 1978-79 Low, Stock, Mar. 30, 1978-79 High, 1978-79 Low, Stock, Mar. 30.

WALL STREET

NEW YORK

Table with columns: 1978-79 High, 1978-79 Low, Stock, Mar. 30, 1978-79 High, 1978-79 Low, Stock, Mar. 30.

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Table with columns: 1978-79 High, 1978-79 Low, Stock, Mar. 30, 1978-79 High, 1978-79 Low, Stock, Mar. 30.

FINANCIAL TIMES SURVEY

Monday April 2 1979

مكتبة الشرق الأوسط

West Berlin

Although it is Germany's largest industrial city, West Berlin remains viable only with the considerable financial support it receives from the Federal Republic. But its problems have often been vastly exaggerated and the city has managed to adapt well to living behind the border of Communist East Germany.

Battling against the odds

By Jonathan Carr

WEST BERLIN is alive and well—and remains one of the democratic world's most rewarding cities although it lies more than 100 miles behind the border of Communist East Germany. Some used to think that West Berlin would be swallowed up by the Communist world, not through direct military action, then by other external pressures which would make life there impossible. When this became fashionable to suggest that the city, drained of vitality by its internal problems and its unique political position, would simply fade away, it must be stressed that reports of West Berlin's impending demise have been vastly exaggerated. Of course, West Berlin has big problems—many but by no means all matched in other major European cities. These problems were for a long time largely ignored by non-Berliners

because of the city's international political importance. Berlin was the "outpost of freedom," the city of the attack on the Wall—the place where the Cold War was most visible. It is a tribute to the success of the Four-power Berlin Agreement and of the subsequent accords between East and West Germany, that this fascinating but unsettling political role is less often talked about now. As the excitement of the initial thrust of the "Ostpolitik" at the start of the 1970s began to dwindle, West Berlin became a more normal city and problems which had long existed, swam into public view. True, West Berlin remains the largest industrial city of Germany (or, as one commentator put it, the most significant industrial centre between Paris and Moscow). But it is not viable without big financial support from the Federal Republic. Raw materials must be brought in from the West at great cost and the city has to provide its own power supplies, without the backing of a larger grid at times of peak demand. Then, West Berlin has no real hinterland and no commuters from the countryside. Those who leave the city go right away and are usually lost to Berlin for good. The population, which has been declining, now stands at about 2m and is likely to drop further. This is partly because for years more people have been leaving than have been moving in—although

a near balance now seems to have been gained. But it is also because the death rate markedly exceeds the birth rate, not a problem in West Berlin alone but particularly acute there. Berlin has had its scandals too. Some mirrored those occurring in West Germany—for example in the building industry, a boom sector where some over-reached themselves and went bust when the economic downturn came. Others were the familiar signs of a political leadership long-some said too long—in office. But the democratic checks and balances have operated well enough. The Social Democrats (SPD) who have always held Government office in West Berlin, had to go into coalition with the Liberal Free Democrats (FDP) in 1975. The SPD then stabilised its position under a new and effective governing mayor, Herr Dietrich Stobbe, and the SPD-FDP alliance was confirmed in elections last month, despite a strong opposition challenge. Finally—neither a problem, nor a scandal, but a mystery, even well-informed West Germans tend to be stuck for an answer when asked to define West Berlin's status. The city is, after all, a land (state) of the federation according to German law—but supreme authority remains in the hands of the four wartime Allied powers. The city is incorporated in the economic and legal system of the Federal Republic and close to 30,000 federal employees work there. But, as the four-power

agreement points out, West Berlin is not a constituent part of the Federal Republic and is not governed by it (although ties between the two can be maintained and developed). Little wonder that American Presidents have been known to make

comments indicating that they will defend West Berlin to their last breath, but that they are not wholly clear precisely what sort of entity they are supporting. Much of this may seem discouraging—or at the least disorientating. The modern

German writer Hans Magnus Enzensberger caught the mood well enough when writing about the German states: "We belong," he said, "to two parts of a whole that does not exist. Two parts, each of which denies being a part, and each presents itself in the name of the whole. . . . This condition is regarded as at once temporary and definitive—the provisional is inviolable."

How then can relative optimism about the future be justified? Some reasons are political (and described in more detail elsewhere in this survey). The two German states are gradually improving contacts and relations between them. This process has benefited Berlin already and surely will continue to do so.

But it is also worth standing back and taking a look at the historical perspective. Even the city's division is not as modern a phenomenon as many might imagine. Berlin was born from two trading towns on either side of the River Spree which viewed each other with distrust even after their leaders had agreed on a common town hall at the start of the 14th century. Each was under geographical and economic pressure to cooperate with the other—and with time this is what happened.

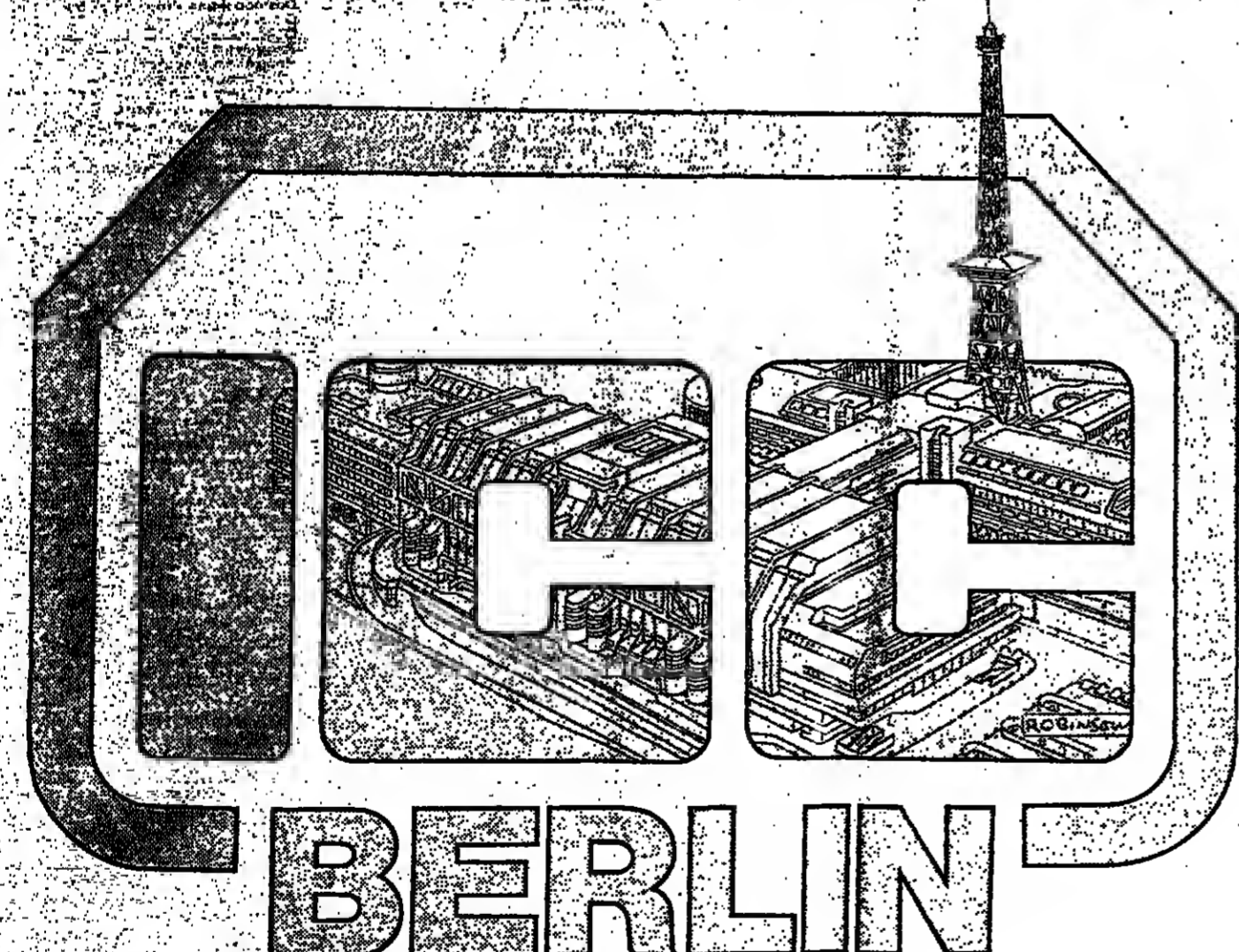
United Berlin had many crises. Today the population decline is a matter for concern. But it is worth recalling the shocking setback of the 30 years war in the 17th century when the town, by then an important trading centre, was made by warring parties to pay tribute to

each but was finally sacked. The population of about 10,000 dropped by almost half, yet decades later Berlin was more important than before and by the time it became the capital of the German empire in 1871 nearly 1m people lived there. The First World War, hyperinflation, strikes and street violence gave way to the "Golden Twenties" when Berlin confirmed its industrial and cultural pre-eminence. Then came the era of Nazi power, another war, destruction and a 1.5m drop in population to about 2.5m. The recital of such figures hardly helps comprehension of the disaster. It is much more striking to stand nearly 400 feet up on Berlin's "Trummerberg" mountain and recall that it was built from war debris.

Vitality
Immense vitality, the ability to make a comeback against all odds, is the common thread which runs through the city's history. Despite the departure of many former Berliners for the West and the arrival not only of other Germans but many foreigners too, there remains a Berlin "flair"—recognisable even to those who first learned of the city's character from books written decades earlier. Part of that quickness of mind and sardonic sense of humour, which many West Germans find uncomfortable about Berliners, may even be of French origin. Thousands of Huguenots who fled their homes after the revocation of the Edict of Nantes in 1685, settled in Berlin. Can that be why Berlin

cabarets, political and otherwise, have a flavour which often evades those in Hamburg and Munich (unless, of course, they are run by transplanted Berliners?) Might it not also help explain why Berliners can give a peculiarly clear-sighted, logical critique of the West German way of life even as they benefit from its successes—a richly ironic situation which Berliners will wryly acknowledge. Despite several rival claims, Berlin is still the only German city with the "feel" of a capital about it. This is not simply because of the reminders of the past—the Reichstag (where parliamentary groups still meet from time to time), the Brandenburg Gate, Charlottenburg Palace and so on. Nor is it a question just of injections of outside money. It has much to do with preservation of tradition—even though so many factors have told against this. There could be many examples, culturally and otherwise. One will suffice: a concert in February given by the peerless Berlin Philharmonic Orchestra, its members, playing as though their lives depended on it, in their concert hall hard by the wall dividing the Eastern and Western sectors. The programme noted that exactly 50 years before, the same orchestra had been playing under Furtwaengler with Kreisler as soloist. It is hard to believe that those who performed then would have had anything but praise for their successors. They would surely have found it gratifying like the old days.

Berlin — East and West



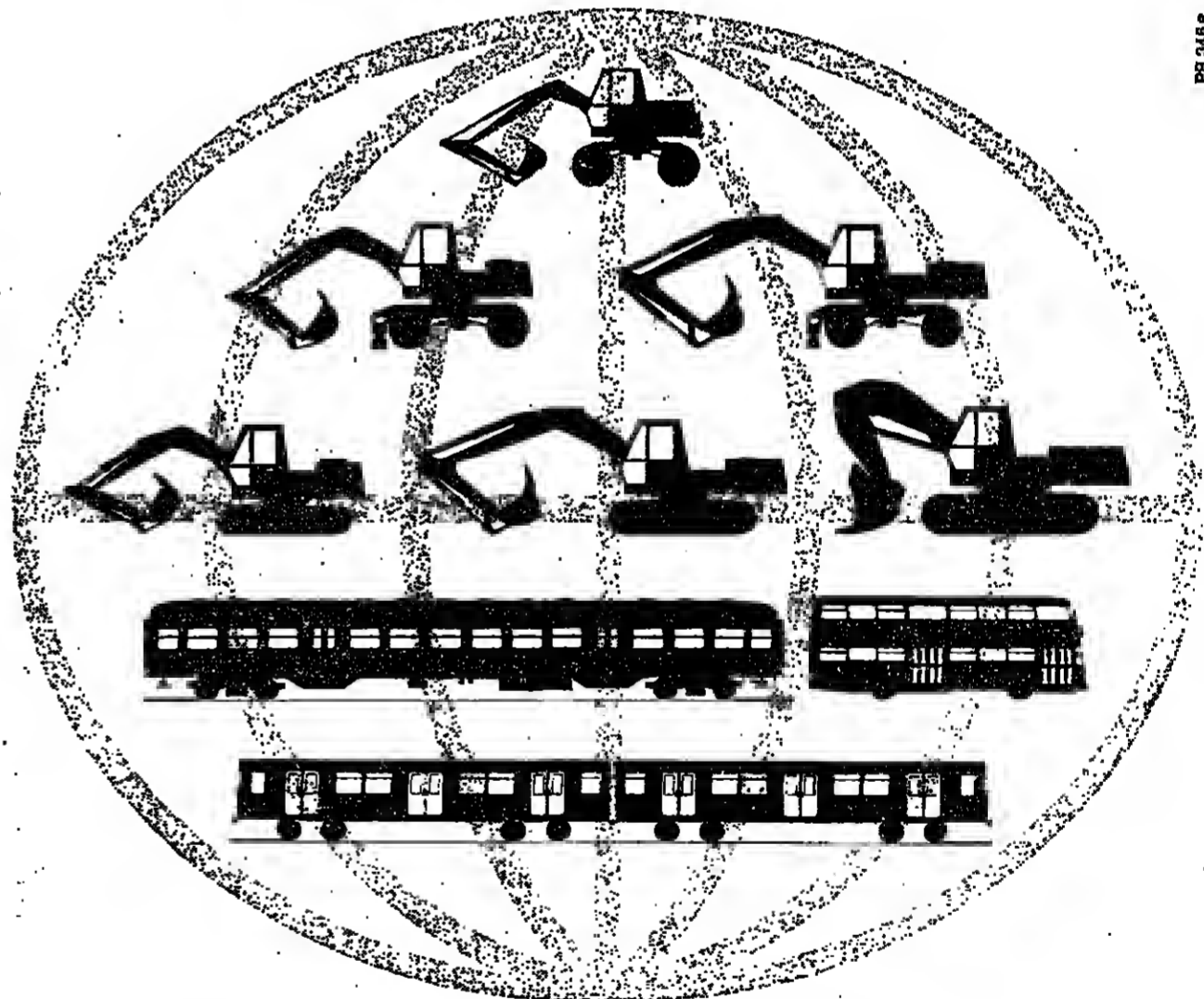
2nd April, 1979, heralds the start of a whole new conference era.

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WEST BERLIN II

Economy operates efficiently

WEST BERLINERS take for granted the highly efficient way their city of some 2.5 million is supplied round the clock from West Germany and sends back most of its processed goods. This past winter, though, it struck home that not once did West Berlin experience shortages of any kind or cuts in electric power during the severest storms in decades that wrought havoc all around the city.

One little-noticed event illustrated the enormous improvements in West Berlin's position since the Four Power Agreement 20 years ago. Although East Germany was struggling with serious shortages of fuel and railway transport, it diverted extra East German Reichsbahn trains to transport all from Hamburg to West Berlin.

The annual transport across East Germany of DM 44bn in funds between West Berlin and West Germany takes place with fewer delays than experienced by most large cities. West Berlin's geographic position is to be enhanced in coming years with the construction of an Autobahn linking the city with Hamburg, while freight carried over the canals linking West Berlin and West Germany will be speeded up by the reopening of the Teltow Canal in West Berlin, closed after the building of the Berlin Wall. A courier of all freight carried between the city and West Germany already is shipped by horse.

West Berlin's gross domestic product last year rose 3 per cent in real terms compared with 3.4 per cent in West Germany, an improvement that is expected to continue this year with an increase of 3.5 per cent in GDP for the city against 4 per cent growth in West Germany.

For several years Berlin investments lagged behind those in the Federal Republic but last year capital goods investment was up 10 per cent and is expected to rise by about 8 per cent this year, or about the same as in West Germany. Philip Morris for example is investing DM 40m to expand its Berlin factory. Bosch is investing DM 35m. Daimler Benz DM 100m and Siemens DM 12m after putting DM 1bn into its factories in the city over the past seven years.

West Berlin's economic life is intertwined with West Germany, including the vital assistance it receives from Bonn. The Federal Government

this year is paying 51 per cent of the city's budget of DM 8.4bn. West Berlin gets 58 per cent of the economic assistance West Germany grants to regions requiring aid, which is an even higher proportion than a decade ago.

Contrary to some fears when the Four Power Treaty was signed, West Germany has steadily increased its financial support for Germany's largest city. Only last month Bonn agreed to double its yearly subsidy to DM 83m for lowering the fares of passengers using British Airways, PanAm and Air France flights between West German cities and West Berlin. Federally-owned companies placed DM 351m in orders to West Berlin companies last year and Chancellor Helmut Schmidt and the Economics Ministry have leaned on major West German companies to buy from West Berlin companies, all things being equal.

Lucrative

The largest single subsidy to West Berlin, amounting to DM 1.8bn in 1977, is the reduction in the 12 per cent Value Added Tax from between 4.5 per cent to 10 per cent of the price of a product being sent to West Germany. The reduction depends on the value added to the product in Berlin and, before a 1976 ruling that at least 10 per cent of the product's value must be made in Berlin, there were some glaring abuses.

For example, West German coffee roasters found themselves losing their traditional business to West Berlin, and meat slaughtering burgeoned out of all proportion in Berlin where it took little more than a blow to a carcass to qualify for a healthy reduction in VAT. Sticking a label on a bottle of West German liquor and sewing a button on a finished jacket in West Berlin boosted profits considerably. Those indulgent days are over but it is still lucrative enough for many West German and foreign companies to manufacture in West Berlin.

Second most important among the preferences granted to West Berlin's industry are the income and corporate tax reductions amounting to DM 950m. Corporate taxes are 23.5 per cent lower than in West Germany and income taxes are 30 per cent less. Small wonder that some of the most expensive cars in Germany are driven from Grunewald

as in West Germany and several large companies, especially in industries with structural problems such as mechanical engineering, have closed down. The number of workers in industry fell by another 5,000 last year but steadied late in the year at 172,000, a level it is expected can be held this year but which is down from 285,000 jobs in 1972.

The city extols the advantages to companies of being close to West Berlin's scores of research and development institutes, including the Hahn-Meitner Institute for Nuclear Research, the Heinrich Heine Institute, four institutes of the Max Planck Society, the Federal Agency for Materials Testing, the Institute for Production Technology and Automation as well as the Technical University. West Berlin companies spent DM 540m on research and development in 1977 with the largest amount, DM 327m spent by the electrical industry and DM 169m by the chemicals and pharmaceuticals sector.

Expansion

One area in which additional jobs are being created is the service industry. The number of service employees rose last year by 1.2 per cent to 148,000 or 18 per cent of all employees. They have profited from the city's growing tourism, conventions and trade fairs which have also made necessary an expansion of hotel room capacity by 3,000 new rooms up to mid-1985. The city is now in the odd situation of having to find future hotel employees in Sicily because they are lacking in Berlin along with many other skilled workers.

West Berlin has made considerable efforts to attract West German workers to the city, whose population fell by 17,500 last year largely because of the excess of deaths over births. Estimates have the city declining in population to 1.7m by the turn of the century, by which time it may have started attracting people from more overcrowded regions. The number of foreigners in West Berlin is continuing to rise and will reach 210,000 this year, making one in every ten West Berliners a foreigner or a first generation German.

Leslie Colitt
Berlin correspondent

The wall becomes 'porous'

IT IS revealing and thought-provoking to revisit East Berlin after 18 years of absence. The first time (three days before the building of the wall in 1961) the contrast with the western sector was sharp enough. West Berlin was described as the "glittering shop window of the democratic world," and while the city has always been more than a window, the description, within its limits, was fair enough. East Berlin, on the other hand, had few shop windows to speak of, glittering or otherwise. The architecture appeared to be either bombastic "wedding cake" style, after the Soviet pattern, or dull blocks of dwellings, after nobody's style in particular. Colourless, lifeless—it was a pleasure to move on to the relative cheer of Warsaw.

Today those who know other East European capitals well are inclined to talk of East Berlin as the shop window of "Gomerev." There seems little reason to challenge this judgment. The city appears quite full of Poles, Russians and others viewing the products of the East German "Wirtschaftswunder" with that same uneasy admiration which Western European visitors accord the main cities of the Federal Republic. By comparison with the East Berlin of 18 years ago, the shops, the products, some of the main buildings in the centre mark a striking advance. Even the people seem to have changed—or is it just that they are better dressed? It is not like West Berlin nor, perhaps, a would one choose to live there oneself. But it is only fair to report the existence—for those not so far aware of it—of two shop windows in the former capital of the German Reich.

Where is the development leading? It is the obvious question, not to be answered definitely. So far as one can discover, by anyone, the Germans are extraordinarily diligent in the West, in the East, and the German commentator needs earlier this year. "Does that really link them together? I'm just not sure."

The point is that the Germans, through detente, have received the opportunity to forge closer links—and they have used them. They are doing so more than ever at a time when for many in the West the

"Ostpolitik" of former Chancellor Willy Brandt has almost dropped out of sight. It is worth glancing back at what has been happening since the key was handed over to the Soviet Union, Britain and France on Berlin, of September 3, 1971. That did not mark the start of Ostpolitik—Bonn had already signed agreements with the Soviet Union and Poland in the previous year. But it was the four-power accord which laid the basis for future advance in three main ways.

First, the Soviet Union for the first time in treaty form recognised the close ties between West Berlin and the Federal Republic and agreed that these should be developed. It is true that there have been repeated squabbles over this part of the text, with each side interpreting the word "ties" in the way best to suit itself.

Second, transit traffic by road, rail and water through East Germany to West Berlin was not only to be unimpeded but would receive preferential treatment. This, too, was a major benefit, bearing in mind the repeated harassment to which Berlin's land lifelines had been periodically subjected—and to which they could be subjected again without treaty regulation. Some may recall this laconic message: "Due to a technical defect on the railway the transport administration of the Soviet military administration in Germany was forced to halt passenger and goods traffic on the line Berlin-The date was June 23, 1948. It Helmsstedt in both directions..." was the Soviet action which led to the Berlin airlift.

Third, communications between West Berlin and East Germany, including East Berlin, were to be improved allowing West Berliners to visit friends and relatives on the other side

of the Berlin Wall. The agreement, the result of hundreds of hours of negotiations between the Western Allies and the Russians, was followed by further detailed, difficult talks between the East and West Germans, who signed their own treaty, regulating general relations in 1972.

A few figures will indicate the extent to which these agreements have made their impact—the extent to which the wall has become "porous" as it were. West Berliners are allowed to visit East Berlin and East Germany for up to 30 days a year. Last year West Berliners alone made more than 3.2m such visits—some just for part of the day, some for longer. At the same time almost the same number of West Germans visited East Germany (against 2.2m in 1973). The number of East Germans coming the other way is much lower—confined, at present, to those of pensionable age or those who wish to visit the west for "urgent family reasons." Nevertheless the total last year was 1.4m. Even the statistics for telephone calls show how the situation has changed. In 1970 there were still no direct calls from West Berlin to East Berlin and East Germany—in 1976 there were more than 7m.

Beyond this growing network of personal contacts, which clearly must have an impact on the ideas and judgements of both sides, official talks have been going on. The most notable outcome was last November when the two German states signed a series of long-term agreements to strengthen further West Berlin's ties with West Germany—while providing East Germany with more hard currency. (It has to be noted that the West Germans have paid large bills for many of the advantages gained over the years. The argument is that if the Berliners gain, which they obviously do, and the East German people benefit, which presumably they must to some degree, then it is a price worth paying. The East Germans are, after all, Germans.)

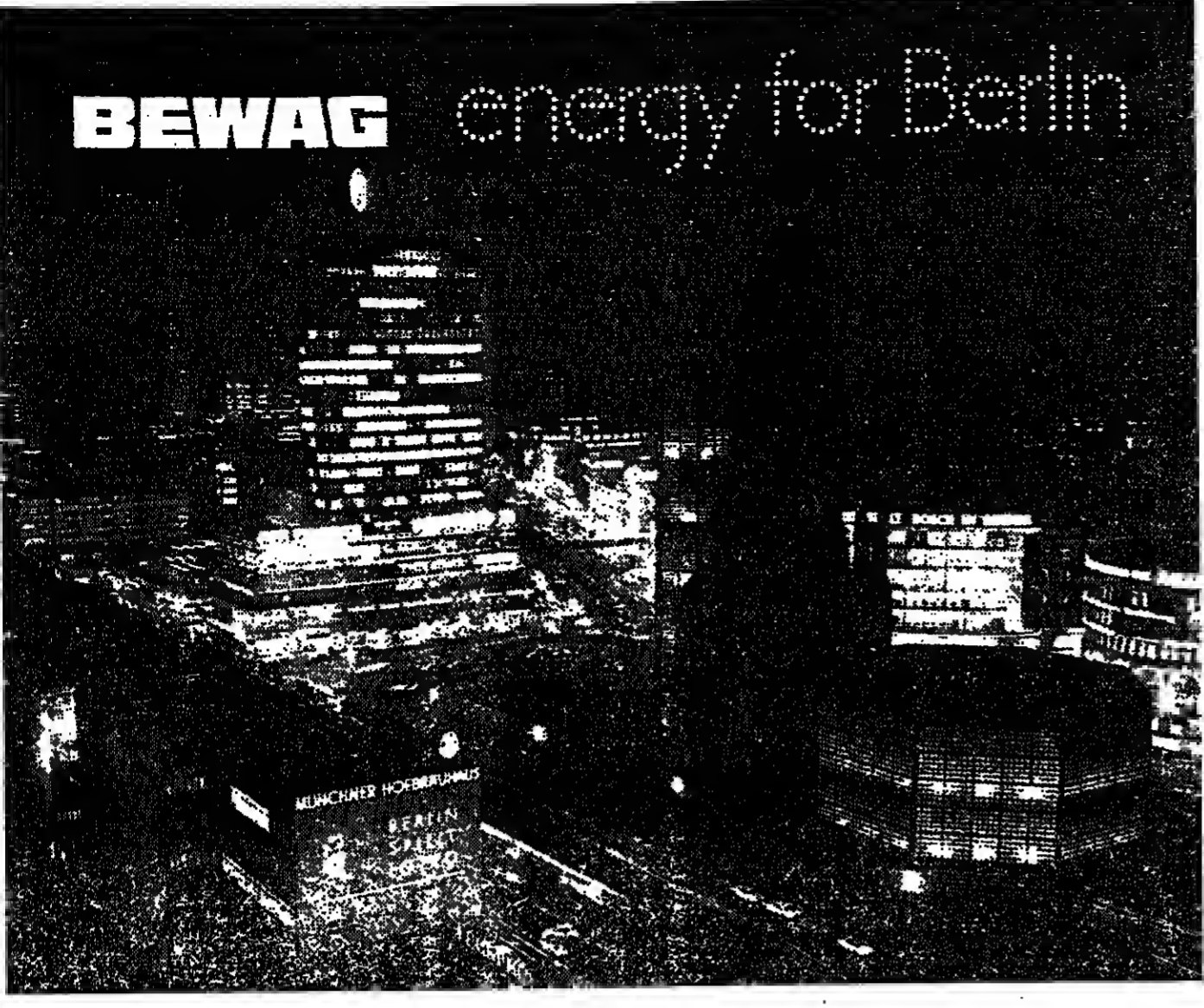
The main element in the new accords in construction of a new motorway between Hamburg and West Berlin across East Germany. This is important, incidentally, not only to the Germans, but also to Czechoslovakia and Hungary, which make big use of Hamburg port. Further, it was agreed that East Germany will reopen the Teltow Canal—thus shortening the barge trip from West Germany to West Berlin by two days. Talks are to go ahead on further improvements and meanwhile other official but non-governmental contacts are gathering pace. For example, a smiling Herr Eugen Loderer, head of the West German metalworkers union IG Metall, could recently be seen in East Germany, agreeing that he and his East German colleagues did not see eye to eye on everything, but that they found it useful to have contacts and develop them.

Responses

The word "reunification" has been deliberately avoided since it arouses so many emotional responses as to make further consideration of the question difficult. (It is worth recalling, however, that the preamble of the Federal Republic's basic law [provisional constitution] says that "the entire German people are called upon to achieve in free self-determination the unity and freedom of Germany.") But if a key aim of Ostpolitik was to bring the two halves of Germany closer, to move towards a situation in which the Berlin wall became increasingly irrelevant, then it is fair to assess the policy as already a success—and, having a serious rise in tension between the super-powers, likely to become still more so.

Leaving aside politics for a moment, it is worth recalling a song by Herr Wolf Biermann, the West German satirist who chose to live in East Germany but who was prevented from returning there after a concert tour in the West in 1976. Called "Deutsches Miserere" he sings of the people of Europe who, perhaps, are fortunate because Germany is divided into two hostile parts. But the wall will come down, he insists, and much will change on both sides. Politicians are not renowned for taking much notice of trouble—especially even good ones. Perhaps in this case they should think again.

Jonathan Carr



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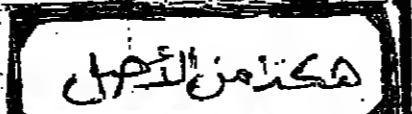
If you'd like to have all the facts and figures at your fingertips, you'll find them concisely set out in the

These six surveys are the European Businessman Readership Survey (EBRS), the Pan European Survey, the European Institutional Investors Research (EIIR), the Survey of Senior Financial Officers in Europe, the Survey of Senior Financial Managers (Worldwide), and the European Money Markets Readership Survey.

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WEST BERLIN III

Congress centre on the grand scale

WHEN THE International Congress Centre is opened in West Berlin today by President Walter Scheel of West Germany before an audience of 7,000, the sheer size of both the event and the building will strike many Germans as typical of the brash Berliners and their sprawling city.

The accompanying concert on the congress centre's grand stage by the Berlin Philharmonic Orchestra, under Herbert von Karajan, and the following day's concert by Karl Böhm and the Vienna Philharmonic will demonstrate that no less attention has been paid to the acoustics of the building's enormous multi-purpose halls than to their commercial viability.

The opening of this DM 800m (\$210.5m) futuristic structure is designed to help make West Berlin the first-ranking convention city in Germany.

The silver-sheathed building, which appears to glide along its site like some gigantic opened matchbox, exudes the energy that typifies this city at its best. Situated next to the sprawling Berlin Exhibition Grounds and linked to them by a three-storey flying bridge, the building also represents the city's even more ambitious goal to become one of the world's foremost convention centres.

Convention-goers will certainly appreciate the centre's siting, five minutes by bus or underground from the heart of West Berlin and less than 10

minutes from the airport by car.

Currently, the city ranks with Munich and Hamburg as one of the leading German convention cities, and is in 10th place internationally. The opening of the congress centre is expected to propel West Berlin into first place in Germany, and move the city into sixth or seventh place internationally.

Herr Peter W. Haupt, the building's general manager, says he hopes that by 1985 West Berlin will have risen to third place among the world's convention cities, behind London and Paris.

"There's far more competition between ourselves and convention managers in other German cities than we have with our colleagues in Paris and London," he explains. The reason is that international conventions and conferences wander over the globe, and when they choose to meet in Europe, only one country is considered each time. Most of the rivalry takes place between that country's cities to host the convention, and this also explains why the new Berlin centre is so large.

"This year we will have three events with 5,000 people at each of them," Herr Haupt says, and this will fully utilize capacity. Next year there will be five events of this size.

Depending on the type of convention or conference, the two main halls — separated by the enormous central stage — can

seat more than 8,000 participants, with just over 5,000 in Hall 1 and 3,160 in Hall 2. Hall 1 can also be transformed for working sessions by rapid converting of every other row of seats into desks.

About 2,000 participants can take part in a conference in Hall 2 when seating galleries are lowered from the ceiling, turning the hall into a tiered auditorium. The platform can then be raised to create a ballroom holding 4,000, or a banqueting hall seating 3,200 diners.

A specially-designed Berlin conference chair, supposed to keep occupants' spines from collapsing has been installed in both halls with everything incorporated except side-rests to permit a conference snooze.

In addition to the two main halls, the congress centre has a third auditorium with 870 seats, and seven other rooms seating from 126 to 288 people. Another 70 rooms of various sizes provide more intimate surroundings for working groups.

Among the larger conventions and meetings to be held at the centre this year will be the European Brewers' Convention next month; the Volkswagen Company's shareholders' meeting, with 4,000 participants; a meeting of Daimler-Benz car dealers, a shareholders' meeting of West Germany's largest company, Veba; a jubilee celebration by the Siemens Company; a

world conference by the Hoechst Company; and the German Social Democratic Party's national convention.

A main event next year will be a world convention of the International Bar Association.

From now until 1981, the congress centre is booked solid, with 100 conferences and conventions. Another 270 events are now being worked on, up to 1985, and the centre is negotiating to hold conventions of 67,000 participants in 1987 and 1989.

Benefits

However, Herr Haupt says that convention centres probably can never be made profitable, and the new congress centre is receiving subsidies from the city of about DM25m (£6.5m) annually, in line with other convention centres.

Financial benefits that do accrue will go to the economy of West Berlin, he says, pointing out that the average convention-goer spends DM 250 a day or four times the amount of the average tourist. Participants at the centre's conferences and conventions in the first year of operation are expected to spend about DM 120m in the city's hotels, restaurants and shops.

The organisers of West Berlin's fairs and conventions believe that the city's location to the heart of East Germany,

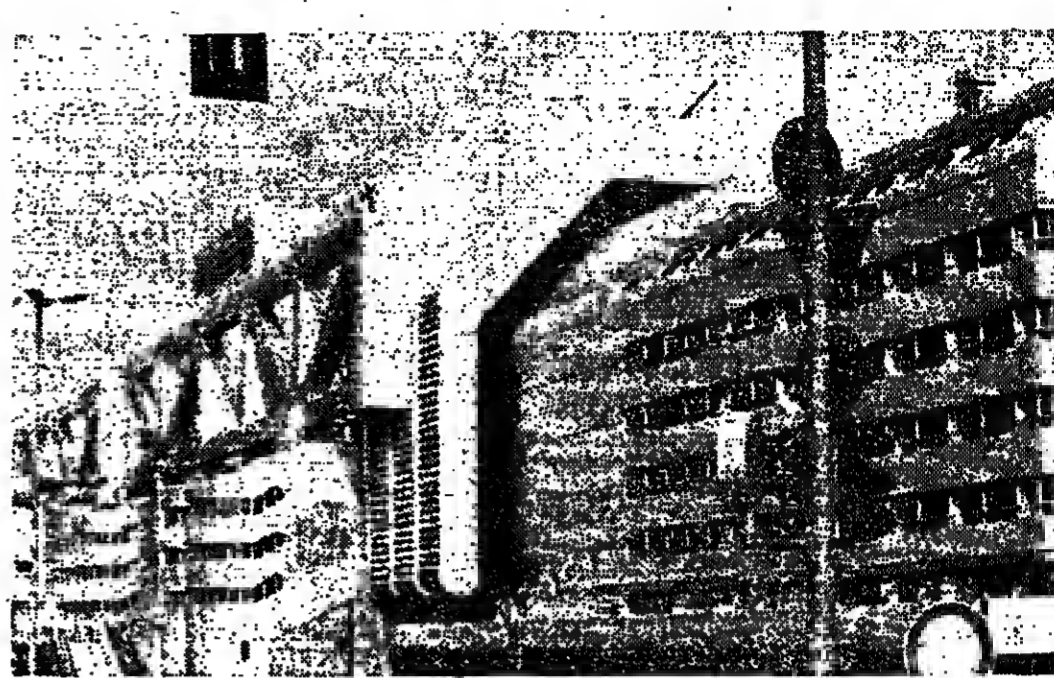
can be turned into an advantage. They point out that East European governments, which are forced to save hard currency, may prefer to have their citizens take part in a conference in West Berlin because they can stay overnight in East Berlin hotels for non-convertible currency, rather than pay for costly trips to the West.

The idea that West Berlin may not be acceptable to East European governments for political reasons is discounted in the city. East European experts are expected at the European Brewers' Convention and the international meeting on East European automobile production because they profit from such contracts.

Similarly, East European participation is heaviest at those West Berlin exhibitions and fairs where East European countries see a direct commercial gain.

All the Comecon countries are regular exhibitors at the International Tourism Exchange, held in the city in March, and which this year had 700 exhibitors from 80 countries and regions. It is regarded as a highly successful event because of the importance of the West German holiday-maker to international tourism.

The International Congress Centre and the adjoining Berlin Exhibition Grounds are seen by their parent organisation, the Berlin Company for Exhibitions, Fairs and Congress (AMK)



The new centre: typical of the brash Berliners

as mutually complementary, because trade and speciality fairs are increasingly being held together with conventions.

The Tourism Exchange, for example, takes place with a congress each year, and the International Green Week and the International Radio and TV Exhibition attract several thousand companies and exhibitors.

The Berlin Exhibition Grounds, with 24 large halls in a park-like setting, make West Berlin the fifth-ranking exhibition city in West Germany. Last year 1.6m people, including 130,000 trade visitors from Berlin and outside, attended exhibitions in West Berlin.

In addition to the Green Week and the Tourism Exchange held earlier this year, the major coming event is the Radio and TV Exhibition in August, which attracted 626,000 visitors when it was last held in 1977.

The Overseas Import Fair in September is another successful event which provides a trade and contact forum on products from developing countries. The German Industries Exhibition, held in Berlin every other year, is to have greater participation than ever from the West German car industry next year.

Leslie Collett

Restoring the city

ONLY A few streets from the pulsating Kurfürstendamm are quiet, tree-lined residential neighbourhoods with small family-owned shops in 19th-century buildings that would long since have been raised to make way for office buildings in most West German cities. West Berlin is guilty of its share of urban mis-planning, but thus far it has spared the unbroken facades of glass and steel in a mid-city drained of life after decades.

The city's blend of apartments, offices and shops is less a virtue than a product of necessity as West Berlin has no suburban hinterland during its inner-city residents with pre-fab housing.

Despite the building of over half a million new flats since the war, and the apparent balance in housing of 1.1m flats to 1.9m inhabitants, newly arrived West Germans say the actual housing shortage is worse than in West German cities. For one thing the city still has over 600,000 apartments, heated by coal-burning ovens and 250,000 flats without either bath or toilet or both. The worst housing is occupied by 180,000 foreign workers and their families, mainly from Turkey, while West Berliners and West Germans compete for the better flats.

The city's goal is to modernise 200,000 substandard dwellings in the next 25 years at a cost of over DM 9.6bn, of which DM 7m will be in public funds mainly from West Germany. This marks the most ambitious project in Germany to restore the inner districts of a major city and prevent their decay into slums.

An international building exhibition is to be held in West Berlin in 1984 to demonstrate at first hand how city cores can be revitalised. One can view the results of the 1931 building exhibit on housing estates in green spaces by visiting the Horseshoe, Siemens and Uncle Tom's Cabin housing estates which are still regarded as highly livable in by their occupants.

halls. Across the street from the State library, the by now quiet National Gallery by Ludwig Mies van der Rohe. In West Berlin's eagerness to duplicate, in miniature, all that seems modern elsewhere, the centre's conferences and conventions in the first year of operation are expected to spend about DM 120m in the city's hotels, restaurants and shops.

On the positive side West Berlin's underground, which is 37 km in length (East Berlin has another 26 km), is to be expanded to 140 km in a few years and 200 km is the goal. Public transport to West Berlin is supplemented by the East German-run urban elevated railway, the S-Bahn, which provides one of the more unusual tours along the West Berlin side of the Wall.

Amenities

Although Berlin already has more amenities than many other large cities, it is trying to improve their distribution. West Berlin's 360 km of streets with bicycle paths, mainly in the suburbs, are to be expanded to over 500 km including inner districts. The city is well endowed with green areas but the spread is unequal. The southeast district of the city is to get a wholly new park by 1985 when the West German garden show is to be held in Berlin.

Elsewhere, the city has created 20 recreation areas on top of 250 hectares of former garbage dumps containing 100m cubic metres of rubble and waste; DM 67m is being spent on completing this urban land reclamation by the mid-1980s.

Young adults in Berlin are showing increasing interest in a form of Berlin family life that flourished over the years but appeared in danger of being extinguished: the allotment garden. Here families spend their free hours tending fruit trees and flowers and drinking and eating with friends outside their tiny houses. Relief is offered from city pressures which are often only a few hundred yards outside the gates of the garden colonies. West Berlin still has 48,000 of these allotment gardens and, although many of them were eliminated in recent years by road construction, the new policy is to ensure their survival as a stabilising influence in a rootless era.

Ironically, Berliners feel hemmed in when they live in most other cities and the explanation is that Berlin has the largest forest area of any European city. Statistically, there are 36 square metres of woodland for every West Berliner and on warm summer days they lay fall claim to them. More than half of West Berlin's 194 square miles consists of forest, lakes, gardens and parks and in mid-summer there are actually traffic jams involving thousands of boats of all sizes on the Wannsee and on Tegel lake.

West Berlin's statisticians work their limited territory rather intensively and have come up with the fact that all the water frontage in the city adds up to 300 km. In this day and age how many cities are able to spend DM 600,000 a year simply on preserving and planting reeds along their lakes and rivers?

L.C.

Renovated

Some 60,000 apartments are to be renovated and modernised as part of the 1984 exhibition, while the old town in Spandau district is to be fully restored with four city squares given back their lost urban quality. Nine thousand new flats are to be integrated into the inner city without sacrificing green surroundings. West Germany is providing DM 48m to reconstruct the former Applied Arts Museum with the help of Polish craftsmen; the Ephraim Palace is also to be rebuilt at a cost of DM 22m and is to house, among other things, the Jewish Museum of Berlin. Yet another restoration is that of the citadel in Spandau, to be completed at a cost of DM 72m with DM 27m coming from West Germany.

West Berlin's postwar cultural complex arcing toward East Berlin's restored Unter den Linden, has a DM 200m addition, the State Library designed by the late Hans Scharoun. Scharoun was also the gifted architect of the near-by Philharmonic building whose striking in-the-round interior and acoustics make it one of the finest of modern concert



Research for Tomorrow's World

The future is daily routine at Heinrich-Hertz-Institute for communications technology. Here basic research goes into the development of new sound and picture transmission systems, such as two-way cable TV, text screen display, laser beam and fiber glass as media for storing, transmitting and processing of data. The impact of new technology now under development has yet to be assessed. It will provide new highly qualified jobs, revolutionize office management and open up a whole new dimension of utilizing TV systems for telecommunication.

A total of DM 600 million annually goes into research and development in Berlin. With its 106 institutes, 9 technical colleges, 2 universities and its cultural and scientific background Berlin rightly lays claim to being the Federal Republic of Germany's centre of science and research. For more information turn to Berlin's press and information centre: Presse- und Informationsamt des Landes Berlin 22/79, Rathaus Schöneberg, 1000 Berlin 62.

Research in Berlin

WEST BERLIN IV

Provocative city liked by artists

A FOREIGN theatre director says living in Germany brings out a creative tension between himself and his surroundings because Germans are forever asking provocative questions. He would find Berlin tailor-made for him because it is certainly one of the most provocative cities there is.

Berlin is the youngest of the great European cities and yet it has seen so much it seems to know it all. Divided Berlin is a microcosm of divided Europe and yet the Berliner has had his fill of slogans and ideology.

Berliners in the West partake of the most democratic of societies while Berliners in the East live in the most dictatorial of societies. Berlin is where the Bauhaus, the German art and design movement, reached its zenith and where a generation later its successors are producing endless imitations. Berlin is where the German and European student revolt was sparked off by a visit to the city 12 years ago by the Shah of Iran.

The student revolt subordinated to social democratic reforms for Germany but for the Shah of Iran it turned out to be the beginning of the end. Berlin is also where the

former mayor, Herr Willy Brandt, confronted the Communists before and after the Wall was built and where he came to the conclusion that butting one's head against the Wall was not going to open it up.

Berlin gave birth to detente in Europe in the early 1970s but it is there that detente also met with the greatest resistance on both sides of the Wall. It is a city where tens of thousands of Germans from East and West meet each day and mainly compare incomes and prices.

Herbert von Karajan conducts what many regard as the world's most sublime orchestra there—the Berlin Philharmonic—and the schools produce adults who usually do not appreciate good music. The city that once created operas, operettas and songs hummed by generations of Central Europeans now imports almost all its popular music from the U.S. and Britain.

Lure

Fifty years ago Berlin turned out an endless stream of quality films for European audiences. Now it is Jurig West German and foreign film makers with hard D-marks to come and make

films in the city. And the lure may even work.

Berlin may never again have the artistic life it enjoyed between the two world wars, but it does have a growing number of German and foreign painters and sculptors who find the atmosphere conducive to their work. A lot of the credit for this should go to the Artists in Berlin Programme started by the Ford Foundation and taken over by the German Academic Exchange Service.

The programme has brought to Berlin such painters, sculptors, writers and musicians as Edward Kienholz, Peter Sedgley, George Rickey, Dorothy Innone, Miklos Haraszli, Rick Cluchey, George Tabori, Witold Wirpsza, and Isang Um Yun, many of whom have decided to stay.

Among the local painters and sculptors with a following are Kurt Muhlennaupt, whose Berlin primitives are especially popular in West Germany and Bernhard Heiliger, who is mainly a representational painter.

Those who are knowledgeable about the local art scene say too many Berlin artists are more concerned with getting a share of the city's financial support for



artists than they are in achievement on their own. The artists, in turn, criticise the city for engaging in too much cultural representation such as the Twenties Meeting the Seventies in London, the Paris-Berlin

Show in Paris and Berlin Now in New York—all of them great successes—while not nurturing Berlin's arts enough.

So much in Berlin has an unreal, theatrical quality that theatre-going is sometimes a

disappointment. The great student demonstrations of the 1960s and 1970s have died down but some of their theatrical favour lingers on at the city's annual May Day demonstrations. Berlin, East and West, boasts

no fewer than four competing May Day demonstrations, from the highly organised march-past in East Berlin with thousands of booming loudspeakers, to the clenched fists of the Communist League of West Germany in a working-class district.

Young Leftists at the West Berlin demonstration are dressed for the occasion in some of the finest proletarian tailoring seen off the stage of the Berliner Ensemble theatre in East Berlin. Their discipline is nearly as impressive as it was during the student revolt when young Berliners, chanting "Mao Tse-tung" and charging down the fashionable Kurfurstendamm would be stopped in their tracks when the traffic lights turned red.

The Schaubuhne am Halleschen Ufer, Berlin's most celebrated theatre, is the place to experience extraordinary acting and staging even of unremarkable plays such as the current Rudi, by Bernard von Brentano. It is being presented in an abandoned former luxury hotel which abuts the Berlin Wall—one of the theatre's temporary venues until its new premises are ready.

The Schaubuhne's current 54-hour production of Dean Destruction and Detroit by Robert Wilson, is a treat for those with the endurance to sit it out in the queues and the luck to get tickets. The Schaubuhne will be getting a reconstructed DM 70m theatre of its own from the city on the Kurfurstendamm and with the level of public support it is getting, it is hoped that rigor mortis will not set in.

Walk-out

Berlin is the city of cultural festivals with theatre and music festivals in both east and western sectors and the annual West Berlin Film Festival. This February it was interrupted by a classic Cold War walk-out by the East Europeans over "The Deer Hunter", a not very incisive American film about the Vietnam war.

A new festival is being held this year in June called Horizons, the First Festival of World Cultures. It is to be inaugurated by Herr Brandt, in his capacity as President of the North-South Commission.

Dr. Ulrich Eckhardt, director of the Berlin festivals, says one

aim is to help Third World countries strengthen their cultural identities. The idea is to get away from presenting, as he puts it, "African symphony orchestras that play Beethoven" and the first Horizons Festival is to stress Africa south of the Sahara including the cultures of the Caribbean and Latin America which were influenced by Black Africa.

Horizons may even succeed in bridging the gap between a festival and a large city with its musical programme devoted to African pop, beat and rock and African bands appearing at street events all over West Berlin.

Miriam Makeba, who sang at last year's Jazz Days, has been invited to sing along with ten female musicians and singers from Guinea and there will be drummers from Burundi, Yoruba dancers from Nigeria and Afro-soul from the Ivory Coast.

Seminars

African theatre ensembles such as the Ghana Drama Studio, the University Theatre of Tanzania and the Aafumi Theatre will perform and authors from Black Africa will discuss the role of writers in developing countries.

It is evident that no expense is being spared by federal or local government to make sure that West Berlin stays in the mainstream of culture and the arts. This is also the reason the city supports the Aspen Institute of Berlin which, in the few years since it arrived, has brought leading politicians, economists and social scientists to West Berlin for seminars on problems facing the Western, Communist and Third Worlds.

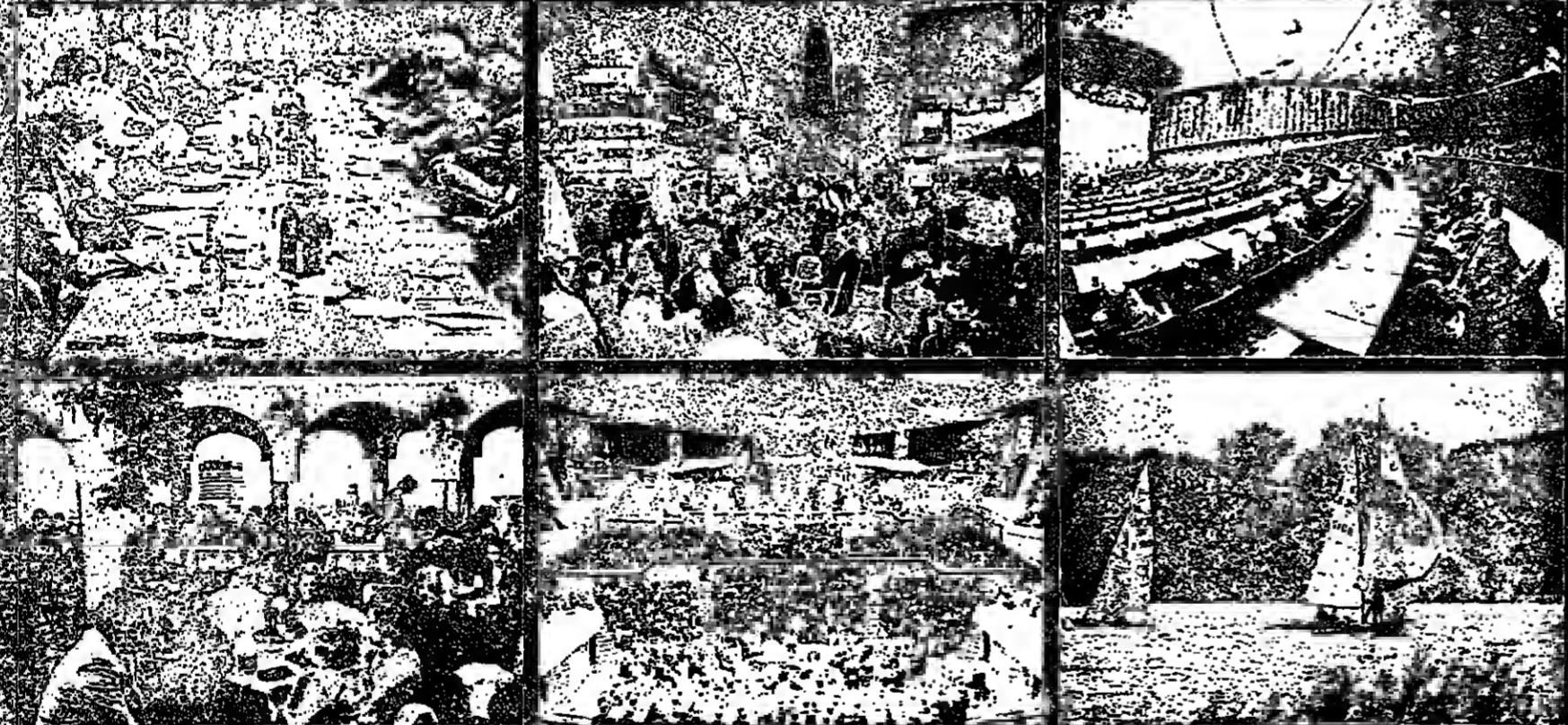
Incidentally, the former capital of former empire of Prussia, is planning to hold a spectacular exhibition in two years' time called "Prussia", along the lines of the Tendencities of the Twenties art exhibition which was a huge success in 1977.

The mere thought of Prussia causes Germans in other parts and many foreigners to wince, but the exhibition might turn out to be a highly provocative and perhaps eye-opening event.

L.C.

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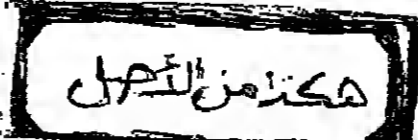
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BERLIN



Aspen Centre's success

THOSE DESIRING peace and quiet in order to think more deeply are wise to look for an island. But those seeking a reminder of the harshest realities of international politics will find it in Berlin. So an island in West Berlin seems the ideal spot for those who want both at the same time.

Since 1974 these conditions have been fulfilled by the Aspen Institute, perched on Schanzewerder Island in the Wannsee lake, on the outskirts of West Berlin. A boat trip one way would take you towards the centre of the city and one the other way would carry you to the border with East Germany.

In the institute's main room with a view out across the water, hundreds of politicians, academics, journalists and others from many countries have gathered over the years to discuss topics ranging from arms control and nuclear energy to education at the end of the century.

Heated

Each meeting is limited to a maximum 24 participants so that the exchange is more intimate and frank than at many other international symposia. But however fascinating the topic and heated the discussion, it is hard to forget at Aspen the political environment to which ideal theoretical solutions must be tailored.

Aspen, Berlin, is an offshoot of that "institute for humanistic studies" which began in 1949 in Aspen, Colorado, with a con-

ference bringing together among others, Albert Schweitzer, Ortega y Gasset and Thornton Wilder. The institute's operating budget now exceeds \$4m— from public and private sources. Its headquarters is in New York and it has a board of international trustees.

The success of the Berlin centre clearly hinges in large measure on its director, Mr. Shepard Stone, almost an honorary citizen, who knew Berlin as a student in the 1920s and Germany in the post-war years as director of public affairs to the U.S. High Commissioner, John McCloy.

"Shep" Stone appears to know almost everyone who is anyone (Chancellor Helmut Schmidt and Dr. Henry Kissinger have been just two recent participants at Aspen)—but is no respecter of persons. Those inclined to mumble or wander from the point are rapidly put right by a sharp interjection— however renowned they may be.

Where does Aspen, Berlin, go from here? One clear answer is that it is ideally situated to profit from that developing dialogue between East and West Germany—whose significance goes far beyond the two German states alone.

It provides an ideal forum for detailed, personal discussion of political and cultural issues without formal political commitment. From this viewpoint, it is not too fanciful to suppose that Aspen, Berlin, will be holding still more rewarding gatherings in the next few years.

Jonathan Carr

AUTHORISED UNIT TRUSTS

Table listing various unit trusts such as Abbey Unit Tr. Mgrs., Allen Harvey & Ross Unit Tr. Mgrs., and Archway Unit Tr. Mgrs. with columns for fund names, managers, and dates.

Table listing various insurance and property bonds companies including Abney Life Assurance Co. Ltd., Allianz Life Assurance Co. Ltd., and Amey Life Assurance Ltd.

Table listing various insurance and property bonds companies including Anglo-Scottish Life Assurance Co. Ltd., Anglo-South African Life Assurance Co. Ltd., and Anglo-Thai Life Assurance Co. Ltd.

OFFSHORE AND OVERSEAS FUNDS

Table listing various offshore and overseas funds such as Alexander Fund, Allen Harvey & Ross Inv. Mgt. (C.I.), and Archway Unit Tr. Mgrs. with columns for fund names, managers, and dates.

INSURANCE AND PROPERTY BONDS

Table listing various insurance and property bonds companies including Abney Life Assurance Co. Ltd., Allianz Life Assurance Co. Ltd., Amey Life Assurance Ltd., and Anglo-Scottish Life Assurance Co. Ltd.

NOTES

Notes section containing small text and footnotes related to the financial data.

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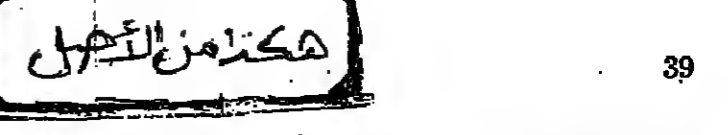
Stock	Price	Yield	Div.	Vol.
17M	12.00	10.50	1.50	100
25M	15.00	12.00	2.00	150
35M	20.00	15.00	3.00	200
45M	25.00	18.00	4.00	250
55M	30.00	21.00	5.00	300
65M	35.00	24.00	6.00	350
75M	40.00	27.00	7.00	400
85M	45.00	30.00	8.00	450
95M	50.00	33.00	9.00	500
105M	55.00	36.00	10.00	550
115M	60.00	39.00	11.00	600
125M	65.00	42.00	12.00	650
135M	70.00	45.00	13.00	700
145M	75.00	48.00	14.00	750
155M	80.00	51.00	15.00	800
165M	85.00	54.00	16.00	850
175M	90.00	57.00	17.00	900
185M	95.00	60.00	18.00	950
195M	100.00	63.00	19.00	1000
205M	105.00	66.00	20.00	1050
215M	110.00	69.00	21.00	1100
225M	115.00	72.00	22.00	1150
235M	120.00	75.00	23.00	1200
245M	125.00	78.00	24.00	1250
255M	130.00	81.00	25.00	1300
265M	135.00	84.00	26.00	1350
275M	140.00	87.00	27.00	1400
285M	145.00	90.00	28.00	1450
295M	150.00	93.00	29.00	1500
305M	155.00	96.00	30.00	1550
315M	160.00	99.00	31.00	1600
325M	165.00	102.00	32.00	1650
335M	170.00	105.00	33.00	1700
345M	175.00	108.00	34.00	1750
355M	180.00	111.00	35.00	1800
365M	185.00	114.00	36.00	1850
375M	190.00	117.00	37.00	1900
385M	195.00	120.00	38.00	1950
395M	200.00	123.00	39.00	2000
405M	205.00	126.00	40.00	2050
415M	210.00	129.00	41.00	2100
425M	215.00	132.00	42.00	2150
435M	220.00	135.00	43.00	2200
445M	225.00	138.00	44.00	2250
455M	230.00	141.00	45.00	2300
465M	235.00	144.00	46.00	2350
475M	240.00	147.00	47.00	2400
485M	245.00	150.00	48.00	2450
495M	250.00	153.00	49.00	2500
505M	255.00	156.00	50.00	2550
515M	260.00	159.00	51.00	2600
525M	265.00	162.00	52.00	2650
535M	270.00	165.00	53.00	2700
545M	275.00	168.00	54.00	2750
555M	280.00	171.00	55.00	2800
565M	285.00	174.00	56.00	2850
575M	290.00	177.00	57.00	2900
585M	295.00	180.00	58.00	2950
595M	300.00	183.00	59.00	3000
605M	305.00	186.00	60.00	3050
615M	310.00	189.00	61.00	3100
625M	315.00	192.00	62.00	3150
635M	320.00	195.00	63.00	3200
645M	325.00	198.00	64.00	3250
655M	330.00	201.00	65.00	3300
665M	335.00	204.00	66.00	3350
675M	340.00	207.00	67.00	3400
685M	345.00	210.00	68.00	3450
695M	350.00	213.00	69.00	3500
705M	355.00	216.00	70.00	3550
715M	360.00	219.00	71.00	3600
725M	365.00	222.00	72.00	3650
735M	370.00	225.00	73.00	3700
745M	375.00	228.00	74.00	3750
755M	380.00	231.00	75.00	3800
765M	385.00	234.00	76.00	3850
775M	390.00	237.00	77.00	3900
785M	395.00	240.00	78.00	3950
795M	400.00	243.00	79.00	4000
805M	405.00	246.00	80.00	4050
815M	410.00	249.00	81.00	4100
825M	415.00	252.00	82.00	4150
835M	420.00	255.00	83.00	4200
845M	425.00	258.00	84.00	4250
855M	430.00	261.00	85.00	4300
865M	435.00	264.00	86.00	4350
875M	440.00	267.00	87.00	4400
885M	445.00	270.00	88.00	4450
895M	450.00	273.00	89.00	4500
905M	455.00	276.00	90.00	4550
915M	460.00	279.00	91.00	4600
925M	465.00	282.00	92.00	4650
935M	470.00	285.00	93.00	4700
945M	475.00	288.00	94.00	4750
955M	480.00	291.00	95.00	4800
965M	485.00	294.00	96.00	4850
975M	490.00	297.00	97.00	4900
985M	495.00	300.00	98.00	4950
995M	500.00	303.00	99.00	5000
1005M	505.00	306.00	100.00	5050

BONDS & RAILS—Cont.

Stock	Price	Yield	Div.	Vol.
11M	11.00	10.00	1.00	100
21M	21.00	20.00	2.00	200
31M	31.00	30.00	3.00	300
41M	41.00	40.00	4.00	400
51M	51.00	50.00	5.00	500
61M	61.00	60.00	6.00	600
71M	71.00	70.00	7.00	700
81M	81.00	80.00	8.00	800
91M	91.00	90.00	9.00	900
101M	101.00	100.00	10.00	1000
111M	111.00	110.00	11.00	1100
121M	121.00	120.00	12.00	1200
131M	131.00	130.00	13.00	1300
141M	141.00	140.00	14.00	1400
151M	151.00	150.00	15.00	1500
161M	161.00	160.00	16.00	1600
171M	171.00	170.00	17.00	1700
181M	181.00	180.00	18.00	1800
191M	191.00	190.00	19.00	1900
201M	201.00	200.00	20.00	2000
211M	211.00	210.00	21.00	2100
221M	221.00	220.00	22.00	2200
231M	231.00	230.00	23.00	2300
241M	241.00	240.00	24.00	2400
251M	251.00	250.00	25.00	2500
261M	261.00	260.00	26.00	2600
271M	271.00	270.00	27.00	2700
281M	281.00	280.00	28.00	2800
291M	291.00	290.00	29.00	2900
301M	301.00	300.00	30.00	3000
311M	311.00	310.00	31.00	3100
321M	321.00	320.00	32.00	3200
331M	331.00	330.00	33.00	3300
341M	341.00	340.00	34.00	3400
351M	351.00	350.00	35.00	3500
361M	361.00	360.00	36.00	3600
371M	371.00	370.00	37.00	3700
381M	381.00	380.00	38.00	3800
391M	391.00	390.00	39.00	3900
401M	401.00	400.00	40.00	4000
411M	411.00	410.00	41.00	4100
421M	421.00	420.00	42.00	4200
431M	431.00	430.00	43.00	4300
441M	441.00	440.00	44.00	4400
451M	451.00	450.00	45.00	4500
461M	461.00	460.00	46.00	4600
471M	471.00	470.00	47.00	4700
481M	481.00	480.00	48.00	4800
491M	491.00	490.00	49.00	4900
501M	501.00	500.00	50.00	5000
511M	511.00	510.00	51.00	5100
521M	521.00	520.00	52.00	5200
531M	531.00	530.00	53.00	5300
541M	541.00	540.00	54.00	5400
551M	551.00	550.00	55.00	5500
561M	561.00	560.00	56.00	5600
571M	571.00	570.00	57.00	5700
581M	581.00	580.00	58.00	5800
591M	591.00	590.00	59.00	5900
601M	601.00	600.00	60.00	6000
611M	611.00	610.00	61.00	6100
621M	621.00	620.00	62.00	6200
631M	631.00	630.00	63.00	6300
641M	641.00	640.00	64.00	6400
651M	651.00	650.00	65.00	6500
661M	661.00	660.00	66.00	6600
671M	671.00	670.00	67.00	6700
681M	681.00	680.00	68.00	6800
691M	691.00	690.00	69.00	6900
701M	701.00	700.00	70.00	7000
711M	711.00	710.00	71.00	7100
721M	721.00	720.00	72.00	7200
731M	731.00	730.00	73.00	7300
741M	741.00	740.00	74.00	7400
751M	751.00	750.00	75.00	7500
761M	761.00	760.00	76.00	7600
771M	771.00	770.00	77.00	7700
781M	781.00	780.00	78.00	7800
791M	791.00	790.00	79.00	7900
801M	801.00	800.00	80.00	8000
811M	811.00	810.00	81.00	8100
821M	821.00	820.00	82.00	8200
831M	831.00	830.00	83.00	8300
841M	841.00	840.00	84.00	8400
851M	851.00	850.00	85.00	8500
861M	861.00	860.00	86.00	8600
871M	871.00	870.00	87.00	8700
881M	881.00	880.00	88.00	8800
891M	891.00	890.00	89.00	8900
901M	901.00	900.00	90.00	9000
911M	911.00	910.00	91.00	9100
921M	921.00	920.00	92.00	9200
931M	931.00	930.00	93.00	9300
941M	941.00	940.00	94.00	9400
951M	951.00	950.00	95.00	9500
961M	961.00	960.00	96.00	9600
971M	971.00	970.00	97.00	9700
981M	981.00	980.00	98.00	9800
991M	991.00	990.00	99.00	9900
1001M	1001.00	1000.00	100.00	10000

AMERICANS

Stock	Price	Yield	Div.	Vol.
11A	11.00	10.00	1.00	100
21A	21.00	20.00	2.00	200
31A	31.00	30.00	3.00	300
41A	41.00	40.00	4.00	400
51A	51.00	50.00	5.00	500
61A	61.00	60.00	6.00	600
71A	71.00	70.00	7.00	700
81A	81.00	80.00	8.00	800
91A	91.00	90.00	9.00	900
101A	101.00	100.00	10.00	1000
111A	111.00	110.00	11.00	1100
121A	121.00	120.00	12.00	1200
131A	131.00	130.00	13.00	1300
141A	141.00	140.00	14.00	1400
151A	151.00	150.00	15.00	



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Options 3-month Call Rates, Notes, and other market information.

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FT BUSINESS OPINION SURVEY

Economic hopes still at low level

BY DAVID FREUD

INDUSTRY'S confidence about the prospects for the UK economy continued to fall last month, according to the Financial Times survey of business opinion, published this morning. Confidence remains at the lowest level since the end of 1976, when the International Monetary Fund deal was being negotiated.

Industrialists were also pessimistic about the general business outlook, with labour unrest, fears of recession and gloomy attitudes to world economic developments, the most commonly cited reasons. The survey, conducted in March, covered executives in the building and construction, textile and clothing and food and tobacco sectors. The interviews were conducted well before the likelihood of an early General Election became apparent.

EARNINGS ON CAPITAL

Those expecting earnings during the current year to:	4 monthly moving total				March 1979		
	Dec. %	Nov. %	Oct. %	Sept. %	Construc- tion %	Food & Textiles %	Other %
Improve	62	57	51	49	60	35	54
Remain the same	23	22	19	17	25	27	29
Contract	8	11	17	22	11	19	12
No comment	7	10	13	12	4	19	5

The survey finds some evidence of slackening demand, both at home and abroad, with a decline in prospects for exports and the level of turnover over the coming year. However, new orders remained at a relatively high level, as did order books, suggesting that the drop in demand has not yet had a serious impact.

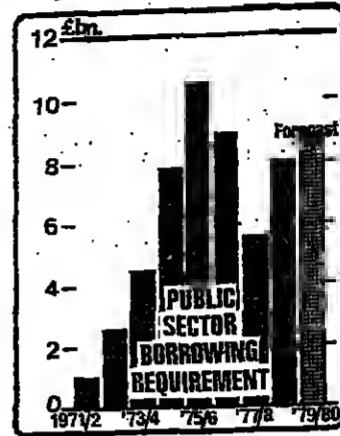
One of the main complaints over the conduct of the economy was the unequal level of pay settlements. It was feared that these might lead to further wage inflation and industrial trouble before the end of the current wage round.

While industrialists were slightly less optimistic about the level of wage costs, they were more optimistic on total unit costs. However, both the building and food sectors expected profit margins to contract, with price competition, as well as wage and cost increases thought likely to be the key reasons. Details, Page 6

THE LEX COLUMN

The Budget that never was

Following the defeat of the Government in the Commons the Conservatives have refused to allow Mr. Denis Healey to present a normal Budget speech tomorrow. Many weeks of work by a top Treasury team have therefore been for nothing. How ever, from a usually reliable source we have been able to obtain a draft of what the Chancellor had intended to say.



"Since this is to be my final Budget speech, I hope my honourable friends in the House will forgive me if I start on a personal note. I was touched this morning to receive a message of congratulations and thanks from a representative of the Association of Tax Consultants, in grateful recognition of all that I have done for their volume of business since 1974.

"There is much talk these days about the public sector borrowing requirement—far too much talk in my view, considering that our Government borrowing in this country is so much lower than in many countries overseas such as Turkey, Argentina or Zaire, to name just a few.

"Messages of congratulations and best wishes have also come from the Society of City-Edged Dealers, the Lease Brokers' Federation and the Guild of Investment Currency Traders; the last of which have said they really do not know what they will do when I have gone.

"I must say that I have had some difficulty in deciding exactly what the trend of borrowing in the coming financial year was likely to be. You may be aware that the Treasury customarily produces four forecasts of the PSBR during pre-Budget periods.

"The view in both Brussels and London is that the protests will be produced much more for domestic political consumption ahead of the election than any serious hope of securing early agreement on changes in the Community Budget.

"One is a ridiculously high one that is leaked to some of the more credulous City analysts so that the figure which is eventually published at the time of the Budget will seem unexpectedly good by comparison.

"Consequently, no major decisions are likely to be taken and the other EEC governments will not want to have serious discussions until after the election.

"The phoney figure which was told to the young men who write brokers' circulars was, you may have noticed from Press coverage, no less than £10bn.

"The British team will be headed by Dr. David Owen, the Foreign Secretary who is believed to have decided to attend only after the election was announced, and by Mr. Dennis Davies, the Minister of State at the Treasury.

"This was after the implementation of the Indexation of Income tax allowances which is required by the so-called Ronker-Wise Amendment, a clumsy title which I believe could conveniently be changed to the 'Healey bonus'.

"In particular, Mr. Davies is expected to seize on figures published last week that the UK is the highest net contributor to the EEC Budget.

"Plainly this £10bn was an absurd figure, which did not take account of the huge savings in public-sector salary costs which are likely to arise from extensive strike action this year. Moreover, we estimate that the comparability studies to be carried out on public-sector pay will show that salaries

are at least 10 per cent too high, with a few exceptions, such as the Treasury. "Several other measures are relevant to the PSBR. I am proposing, for instance, that gilt-edged investors will be offered a highly attractive opportunity to convert into a new form of Treasury Deferred stock, the key feature of which is that no interest will be paid during the 1978-80 financial year.

"I have also ordered the Bank of England to lower its Minimum Lending Rate from 13 to 4 per cent with immediate effect. No longer will British interest rates be anomalously higher than those of weak currency countries like West Germany. This will have the purely incidental effect of reducing the Government's short-term borrowing costs substantially, and adding this economy to that on gilt I estimate that the total saving of debt interest will be almost £3bn.

"Making these adjustments to the secret Treasury PSBR forecast which I have at last forced out of my officials I can now say that the borrowing requirement on unchanged policies in 1979-80 would have been no more than £2.5bn.

"This allows me to propose tax reliefs of £6bn. You will appreciate that, since the Budget taken as a whole is a strictly neutral one, there is no question of there being any element of electioneering in this. A precaution is necessary, however, because the City has shown a tendency to misinterpret my Budgets in the past; the stock market and the foreign exchanges will be closed until further notice.

"My specific measures are, briefly as follows. All duties on alcoholic drinks will be abolished, as will all betting and gaming taxes. Value added tax will be halved. As for income tax, the standard rate will be cut to 30p and as a special gesture all taxpayers are to receive a cash bonus of £10 on May Day.

"I regret that because of my hopes of winning the leadership of the Labour Party it will not be possible to extend the benefit of the income tax relief fully to the higher rate bands. But I would point out that in cutting the maximum rate of tax paid on investment income, from 98 to 97 per cent, I am permitting net of tax income to rise by no less than a quarter. After this, tax consultancy will surely never be the same again."

Teamsters confront Carter policy

By Stewart Fleming in New York

TEAMSTERS' UNION has launched the first major challenge to the wage guidelines of President Carter's anti-inflation policy in the U.S.

Early yesterday, weeks of intense talks in the trucking industry over a new three-year wage contract for some 300,000 drivers and warehousemen broke down, even though the two sides were close to agreement.

Mr. Frank Fitzsimmons, president of the scandal-ridden union, announced that he would call selective strikes across the country in an effort to force the employers—and the administration—into accepting an agreement which would almost certainly breach the anti-inflation policy.

President Carter has acknowledged that so far as the wage guidelines are concerned, the settlement in the trucking industry is a critical test. The administration's anti-inflation guidelines have their origins in the Labour Department, which feared that settlements in this year's crucial round of wage negotiations could underpin an even higher rate of inflation.

Mr. Fitzsimmons blamed the talks breakdown on Government intervention in the collective bargaining process. It appeared both sides had accepted a basic \$1.50 an hour increase on the current average of around \$9.40. Since the negotiations opened, however, it has been recognised that the most difficult part would be to reach agreement on the package of benefits, including such things as pension payments and cost of living allowances. So it has proved.

Andreotti resigns as Italy coalition falls

BY PAUL BETTS IN ROME

THE NEW Italian coalition Government of Christian Democrats, Republicans and Social Democrats was defeated in the Senate confidence debate at the weekend by a single vote, opening the way to an early General Election.

After the vote, 150 against and 149 in favour, Sig. Andreotti, the Prime Minister, tendered his resignation to Sig. Sandro Pertini, the Italian President.

Although President Pertini might try to seek a 11th-hour compromise to avoid early elections, a reconciliation between the country's two main parties, the Communists and the Christian Democrats, is generally ruled out at this stage.

The President has summoned Sig. Pietro Ingrao, the Communist leader of the Chamber of Deputies, and Senator Amintore Fanfani, the Christian Democrat leader of the Senate, to a meeting today.

The Communists, who are holding their 15th national con-

gress, again declared unambiguously at the week-end that any agreement would have to see direct participation by their party in any new Government. The presence of Communist Ministers in the Cabinet has been rejected equally firmly by the Christian Democrats.

In the face of the deadlock, President Pertini is expected to dissolve Parliament in order to combine the General Election with the elections for the new European Parliament, to be held in Italy on June 10.

Position

During the two electoral campaigns, Sig. Andreotti's Government would remain temporarily in office as a caretaker administration.

The coalition Government was widely expected to lose the confidence vote because of the opposition of the two main Left-wing parties, the Communists and the Socialists.

Official figures released at the weekend show a 1.7 per cent increase in wholesale prices over January, confirming the worrying trend of the past few months.

That largely reflects the discontent and discomfort that the former alliance with the Christian Democrats provoked within the party and the leadership's attempts to recover the vote on the Communist Party left.

Meanwhile, the country's climate of political uncertainty has deteriorated in the light of growing signs of renewed inflation and the possible repercussions of the controversial Bank of Italy affair, which has now caused a significant dispute between the country's political and economic forces and the judiciary.

The coalition Government was widely expected to lose the confidence vote because of the opposition of the two main Left-wing parties, the Communists and the Socialists.

UK ready with EEC budget protest

By Peter Riddell Economics Correspondent

BRITISH MINISTERS are expected to use a two-day joint meeting of EEC finance and foreign ministers, starting in Luxembourg today, as a platform for loud protests about the alleged unfairness of the UK's contributions to the Community Budget.

The view in both Brussels and London is that the protests will be produced much more for domestic political consumption ahead of the election than any serious hope of securing early agreement on changes in the Community Budget.

Consequently, no major decisions are likely to be taken and the other EEC governments will not want to have serious discussions until after the election.

The British team will be headed by Dr. David Owen, the Foreign Secretary who is believed to have decided to attend only after the election was announced, and by Mr. Dennis Davies, the Minister of State at the Treasury.

Figures

They are expected to develop the criticisms of present EEC arrangements which were expressed strongly by Mr. John Silkin, the Agriculture Minister, in Brussels last Thursday, much to the annoyance of other EEC ministers.

In particular, Mr. Davies is expected to seize on figures published last week that the UK is the highest net contributor to the EEC Budget.

Both major parties in Britain are agreed on the need for changes in the Common Agricultural Policy and in the budget as a whole though they differ both internally and between each other on the desirable answers.

Some Tories have recently been critical of suggested solutions involving a rise in the EEC Budget, through, say, an expanded regional fund, because of their desire to check the overall size of public spending.

The main item on the agenda of today's meeting is a Commission Green Paper on how the EEC Budget might be financed in the 1980s. This calls for an adjustment in the pattern of contributions to ensure that less prosperous members do not pay more than rich countries. Mr. Davies has already welcomed the idea floated by the Commission that there might be a progressive element in the way contributions are calculated.

Among the other subjects due to be raised are relations with Turkey and Yugoslavia on the eve of further discussions with Greece about its entry into the EEC.

Fresh Government funds up to £150m set for BL

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

FRESH Government funds totalling about £100m to £150m are expected to be announced today for BL, formerly British Leyland.

The way will be cleared for the Industry Bill, which raises the borrowing limits of the National Enterprise Board to £5.5bn, to receive the Royal Assent this week.

This provides BL with the money it urgently needs to push ahead with investment programmes. It will enable the NEB to fund both BL and Rolls-Royce in the coming months despite the uncertain future that some of its activities may face under a Conservative Government.

It seems unlikely that the NEB's five-year corporate plan, which has been with the Department of Industry for some weeks, will be approved before the General Election.

This will give the next Government an immediate chance to review its proposals without having to recall the plan from Sir Leslie Murphy, chairman of the NEB.

Conservative leaders have made clear that they intend to reduce the NEB's entrepreneurial activities while maintaining it at least to look after lame-duck companies such as BL and Rolls-Royce.

Although there appeared no way that the Industry Bill, which is in the Lords today for its Third Reading, could be held up, it is understood that an informal arrangement has been reached between the Government and Tory Whips in the Lords.

This is that once the Bill receives the Royal Assent, the NEB will make extensive use of its new borrowing powers only to fund BL and Rolls-Royce

during the General Election campaign.

This has some political significance, but should not affect the operations of the NEB, which is unlikely to finalise any major entrepreneurial deals in the coming month. In any case it has £130m of its present £1bn borrowing limit still in hand.

Mr. Eric Varley, the Industry Secretary, is due to announce the new funding arrangements for BL in the Commons in answer to a Parliamentary question on the company's future.

BL needs a further tranche of the £1bn long-term advances agreed by the Government to fund major investment projects, which this year are expected to exceed last year's total of £235m.

The projects include expanding Land Rover and Range Rover production, introducing the "super-mini" next year, and replacing the Marina range in 1982.

Unions seek Whitley break-up

BY PHILIP BASSETT and NICK GARNETT

IN A further bout of inter-union dispute the two biggest Civil Service unions decided yesterday to attempt dismantling the whole national negotiating machinery for the 600,000 civil servants.

On the eve of today's one-day strike over pay, which may seriously affect air flights and other services, the Civil and Public Services Association and the Society of Civil and Public Servants decided to withdraw from all meetings of the central policy-making committee of the Staff Side on the National Whitley Council.

The council, made up of an eight-union staff side and representatives of the Civil Service Department, has negotiated wages and conditions for nearly 60 years.

In a bitter procedural wrangle with other unions and the Government, the two unions, together representing half the civil servants, have decided to inform the national staff side meeting on Thursday that they have no confidence in it and that the present machinery should be wound up.

The executive of both unions, which intend drawing up alternative proposals for a national negotiating system, formally rejected the Government pay offer of 9 per cent, with half the rest of the rises due from a comparability study to be paid on August 1 and the

remainder on March 31 next year.

The Institution of Professional Civil Servants, the First Division Association and the Association of Government Supervisors and Radio Officers are prepared to recommend acceptance.

The Prison Officers' Association has told Ministers that its overtime ban will go ahead until its executive considers the offer on Wednesday. The Civil Service Union and the Inland Revenue Staffs Federation are both unhappy with the offer, since many of their members are low-paid and the offer is weighted toward the higher staff grades.

The present crisis on the staff side stems from a meeting on Thursday, a day before formal pay negotiations, at which Mr. Roy Hattersley, the Prices Secretary and public-sector pay co-ordinator, met general secretaries of five of the smaller Civil Service unions.

Mr. Ken Thomas and Mr. Gerry Gillman, general secretaries of the CPSA and the Society of Civil and Public Servants, said yesterday that they had been deliberately excluded from what was in effect a "secret" meeting on Thursday.

The two general secretaries had been invited.

A CPSA statement said the union had full confidence in Mr. Bill Kendall, secretary-general of the Staff Side, who was also not at the Thursday meeting, and that the blame for the affair lay at the door of Mr. Hattersley.

Why civil servants strike. Page 27

Continued from Page 1

Carter at N-plant

handling and outcome of the accident. The NRC in Washington has briefed British, Swedish and Japanese representatives, while France and West Germany have flown in nuclear experts.

The immediate concern is to keep the large hydrogen gas bubble filling the top of the reactor from reaching any explosive level. Metropolitan Edison said yesterday that gases were being drained from the reactor to prevent this. The second problem is to reduce the size of the bubble, which is big enough to block further cooling of the reactor fuel core.

Severe damage to uranium fuel rods has kept reactor temperature high—still around 380 degrees Fahrenheit—while pressure inside the reactor is being maintained at 1,000 lbs per square inch to stop the

hydrogen gas bubble expanding. The power company has announced that its insurers, C American Nuclear Insurers, will take claims from residents for any expenses of their evacuation and for any damage. Damage to the \$1bn (£500,000) plant itself could run into hundreds of millions of dollars.

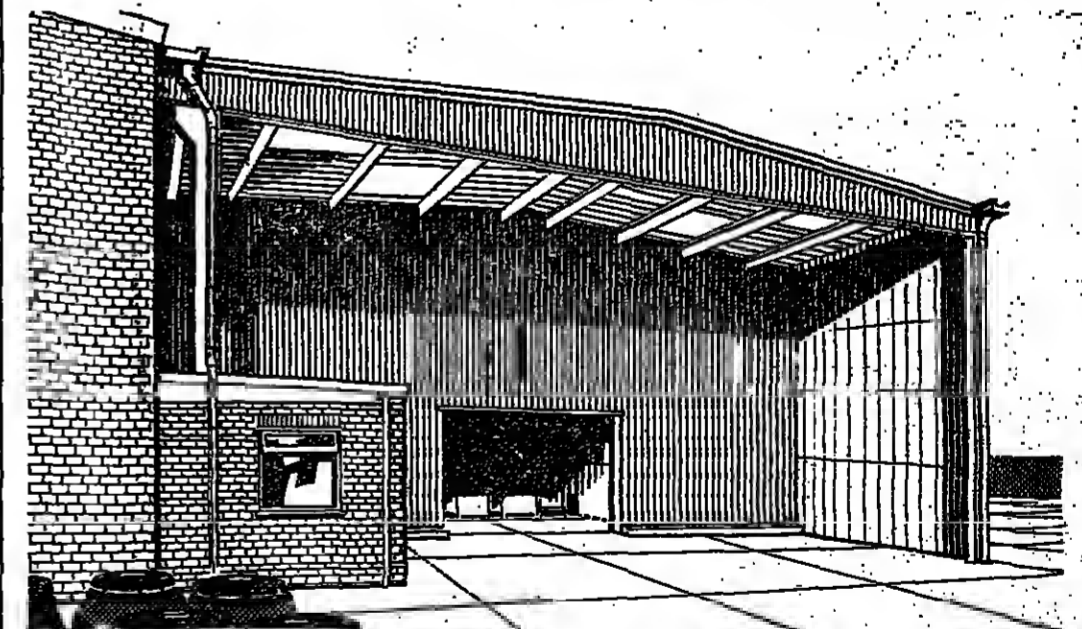
Mr. Bruce Millan, the Scottish Secretary, has been urged to stop immediately work on the proposed nuclear power station at Torness in East Lothian. The Scottish Campaign to Resist the Atomic Menace, making an appeal to Mr. Millan yesterday said: "This was the accident they said couldn't happen."

Weather

UK TODAY
SHOWERS in all areas. Snow on high ground being heavy and prolonged in the north. Generally cold. Max. 10C (50F).
London, E. S.E., Cent. S., Cent. N. England, E. Midlands Sunny intervals, showers. Becoming dry later.
Wales, W. Midlands, W. England, Channel Isles Sunny intervals, showers, wintry on hills. Mainly cloudy later.
Scotland, Ulster, N.E. England Windy showers or longer outbreaks of sleet or snow. Sunny intervals.

WORLDWIDE

	Y day	Y day
	max/min	max/min
Algiers	14/5	15/6
Amman	11/2	12/3
Amsterdam	10/5	11/6
Athens	16/8	17/9
Bahia	26/17	27/18
Batavia	14/27	15/28
Beirut	22/7	23/8
Bombay	25/15	26/16
Buenos Aires	15/5	16/6
Calcutta	25/15	26/16
Cairo	18/8	19/9
Cebu	26/16	27/17
Colon	26/16	27/17
Delhi	25/15	26/16
Dublin	12/5	13/6
Hankow	10/0	11/1
Hong Kong	18/8	19/9
London	10/5	11/6
Lyons	10/5	11/6
Manila	26/16	27/17
Medan	26/16	27/17
Perth	18/8	19/9
Rangoon	25/15	26/16
San Francisco	15/5	16/6
Singapore	25/15	26/16
Sourabaya	25/15	26/16
Taipei	25/15	26/16
Tokyo	15/5	16/6
Yokohama	15/5	16/6
Zurich	10/5	11/6



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